

The Power of Business



imagine 24/7 Perfect Safety and Security

Samsung Techwin dreams a world where the word 'worry' does not exist in dictionaries. To turn our world into such a place, we are committed to protecting the safety of society and its property at all times by offering state-of-the-art security products. The perfect choice for 24/7 perfect safety and security is always Samsung Digital Security System.

In this modern society, potential danger lurks everywhere. Residential areas, busy commercial buildings, huge manufacturing facilities - unforeseen accidents or crimes cost human lives and material losses everywhere. Being true to its reputation, Samsung Techwin protects your safety from the very front line by providing amazingly capable and systemized security products along with solid customer support.



Your source for Advanced Digital Security Solutions

SAMSUNG Digital Security Systems

> Your Source for Advanced Digital Security Solutions !

Samsung Techwin boasts its state of the art technology and of its comprehensive business involvement, that is important for the industry and contributes to the advancement of the technology itself.

With the leading optics and digital imaging technology, Samsung Techwin has constantly developed and produced various security and surveillance equipments of highest quality to meet the demands of continuous 24-hour security surveillance. Now, surveillance technology of Samsung Techwin is opening up a whole new world of exciting possibilities, and bringing the future a little closer each day !

Economic



PRODUCT LINE UP

FIXED CAMERA				DOME CAMERA			
Ultra Low Light	SHC-750 SSNR 1/2" EM-CCD Extreme Ultra Low Light	14P • 15P		PTZ Dome	SPD-3300 SVIII, SSNR 1/4" CCD, PTZ Speed Dome 30X Zoom, Low Light, WDR	30P • 31P	
	SHC-740 SVIII, SSNR 1/2" CCD Ultra Low Light, High Resolution	16P • 17P			SPD-3000 WIII, SSNR 1/4" CCD, PTZ Speed Dome 30X Zoom, Day & Night, High Resolution	32P • 33P	
	SHC-730 SVIII, SSNR 1/3" CCD Low Light, WDR, High Resolution	18P • 19P			SPD-2300 WIII, SSNR 1/4" CCD, PTZ Speed Dome 23X Zoom, Day & Night, High Resolution	34P	
Low Light & WDR	SHC-721A SSNR 1/3" CCD Low Light, WDR	20P		Vandal-proof Dome	SVD-4300 WIII, SSNR 1/4" CCD, Vandal-Proof 10X Zoom, Day & Night	35P • 36P	
	SVD-4120A SSNR 1/3" CCD, Vandal-Proof 3-Axis Rotation, Low Light, WDR	37P					
Day & Night	SDN-550 WIII, SSNR 1/3" CCD Day & Night, High Resolution	21P • 22P		3-Axis Dome	SID-500 WIII, SSNR 1/4" CCD, 3-Axis Rotation 10X Zoom, Day & Night	38P	
	SDC-415 WIII, SSNR 1/3" CCD Day & Night, High Resolution	23P • 24P			SID-450/452 WIII, SSNR 1/3" CCD, 3-Axis Rotation Day & Night, High Resolution	39P	
High Resolution	SDC-313B WIII, SSNR 1/3" CCD High Resolution	25P		Color Dome	SID-45C/46C WIII, SSNR 1/3" CCD Day & Night, High Resolution	40P	
	SID-50 WIII, SSNR 1/3" CCD, Mini Dome High Resolution	41P					
Built-in Lens	SOC-4030 WIII, SSNR 1/3" CCD, Built-in V/F Lens Day & Night, High Resolution	26P		ACCESSORIES			
Zoom	SDZ-330 SVIII, SSNR 1/4" CCD, 30X Zoom Lens Low Light, WDR	27P • 28P		For PTZ Speed Dome	42P • 45P		
	SDZ-300 WIII, SSNR 1/4" CCD, 30X Zoom Lens Day & Night, High Resolution	29P					
				For Vandal-proof Dome			
				Housing			

PRODUCT LINE UP

LENS				NETWORK PRODUCT			
Varifocal	SLA-3580D 1/3" CS-Mount Varifocal 3.5 ~ 8mm	49P		Server	SNS-400  4CH Network Server MPEG-4/JPEG	67P	
	SLA-2985D 1/3" CS-Mount Varifocal 2.9 ~ 8.5mm	49P			SNS-100  1CH Network Server MPEG-4/JPEG	68P	
	SLA-2810D 1/3" CS-Mount Varifocal 2.8 ~ 10mm	49P		Camera	SNC-550  VIII, SSNR 1/3" CCD, Network Camera Day & Night, MPEG-4/JPEG	69P	
	SLA-550D 1/3" CS-Mount Varifocal 5 ~ 50mm	49P					
DIGITAL VIDEO RECORDER				CONTROLLER			
PC Base	SVR-5116 16CH, PC Base 480fps / 120fps (NTSC) 400fps / 100fps (PAL)	55P • 56P		Keyboard	SCC-3100A System Controller for Speed Dome, DVR & Matrix	71P	
	SVR-1650E 16CH, Stand-Alone 480fps / 480fps (NTSC) 400fps / 400fps (PAL)	57P • 58P		Quad	SDQ-420 Dual Color Quad Switcher	72P	
Stand-Alone	SVR-1640E 16CH, Stand-Alone 480fps / 120fps (NTSC) 400fps / 100fps (PAL)	59P		Matrix	SMX-25632 Video Matrix Switcher 256 input / 32 output	73P	
	SVR-1630 16CH, Stand-Alone 480fps / 240fps (NTSC) 400fps / 200fps (PAL)	60P		TFT-LCD	STM-19LV/17LV 19", 17" Color 1280 x 1024 @ 75Hz Resolution	77P	
	SVR-950E 9CH, Stand-Alone 270fps / 120fps (NTSC) 225fps / 100fps (PAL)	61P			STM-21F  21" Color 450TV Lines	78P	
	SVR-440 4CH, Stand-Alone 120fps / 120fps (NTSC) 100fps / 100fps (PAL)	62P • 63P		CRT	SAM-14MV 14" Color 420TV Lines	79P	



Your source for
Advanced Digital Security Solutions



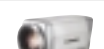
CAMERA

SAMSUNG Digital Security Systems

SAMSUNG TECHWIN



CAMERA SELECTION

Shape	Model (Series)	Image	Pick-up Elements	Min. Illumination	Lens	Horizontal Resolution	Day & Night	WDR/ BLC	S/N Ratio	OSD	MD	Masking	Voltage			
Fixed	SHC-750		1/2"	0.008Lux@F1.2 (Color) 0.0005Lux@F1.2 (B/W)	-	≥450TVL(Color) ≥470TVL(B/W)	ICR	BLC	50dB	●	●	●	12V DC			
	SHC-740			0.08Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	-	≥530TVL(Color) ≥570TVL(B/W)				●	●	●	Dual (24V AC / 12V DC)			
	SHC-730		1/3"	0.13Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	-	≥520TVL(Color) ≥570TVL(B/W)		WDR/BLC		●	●	●	Dual (24V AC / 12V DC)			
	SHC-721A			0.2Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	-	≥500TVL(Color) ≥550TVL(B/W)				●	●	●	Dual (24V AC / 12V DC) 230V AC			
	SDN-550			0.3Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	-	≥530TVL(Color) ≥570TVL(B/W)				●	●	●	Dual (24V AC / 12V DC) 230V AC			
	SDC-415			0.3Lux@F1.2 (Color)	-	≥530TVL	Electronic	BLC		●	●	●	24V AC / 12V DC 240V AC			
	SDC-313B				-		-			●	●	●	24V AC / 12V DC			
	SOC-4030				3X (V/F)		Electronic			●	●	●	Dual (24V AC / 12V DC)			
	SDZ-330		1/4"	0.4Lux@F1.6 (Color) 0.08Lux@F1.6 (B/W)	30X (Zoom)	≥520TVL(Color) ≥570TVL(B/W)	ICR	WDR/BLC		●	●	●	12V DC			
	SDZ-300			0.6Lux@F1.6 (Color) 0.1Lux@F1.6 (B/W)				BLC		●	●	●	24V AC / 12V DC			
SPD-3300		0.4Lux@F1.6 (Color) 0.08Lux@F1.6 (B/W)		WDR/BLC				●		●	●	24V AC				
SPD-3000		0.7Lux@F1.6 (Color) 0.1Lux@F1.6 (B/W)						BLC		●	●	●	24V AC			
SPD-2300		23X (Zoom)		●	●					●	24V AC					
Dome	SVD-4300		1/3"	0.7Lux@F1.8 (Color) 0.02Lux@F1.8 (B/W)	10X (Zoom)	≥500TVL(Color) ≥570TVL(B/W)	Electronic	WDR/BLC		●	●	●	Dual (24V AC / 12V DC)			
	SVD-4120A			0.3Lux@F1.3 (Color)	2.5X (V/F) 2.4X (V/F)	≥500TVL		●		●	●	Dual (24V AC / 12V DC)				
	SID-500		1/4"	0.7Lux@F1.8 (Color) 0.02Lux@F1.8 (B/W)	10X (Zoom)	≥500TVL(Color) ≥570TVL(B/W)	ICR	BLC		●	●	●	Dual (24V AC / 12V DC)			
	SID-450/452		1/3"	0.3Lux@F1.2 (Color)	3X (V/F)	≥530TVL	Electronic			●	●	●	SID-450 : 12V DC SID-452 : Dual (24V AC / 12V DC)			
	SID-45C/46C				Fixed					●	●	●	12V DC			
	SID-50				≥540TVL	-	-			-	12V DC					

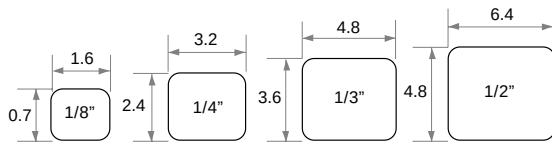
CAMERA TERMS & FEATURES



CCD (Charged Coupled Device)

Charged Coupled Device. This is a solid state semiconductor imaging device often referred to as an integrated circuit, chip or "image." Solid state cameras are sometimes referred to as CCD cameras.

Format sizes in mm



Sensitivity

A camera's ability to reproduce a given scene with a given amount of light. Usually expressed on footcandles or lux. The sensitivity of a CCD camera, broadly speaking, is a measure of its performance in low light conditions.

LIGHTING	LUX LEVEL
Unobstructed sun	100,000
Sun with light cloud	70,000
Sun with heavy cloud	20,000
Home / office lighting	100-1000
Sunrise / sunset	500
Street lighting	1-10
Twilight	4
Full moon	0.2
Quarter moon	0.02
Overcast moon	0.007
Clear night sky	0.001
Average starlight	0.0007
Overcast night sky	0.00005



WDR (Wide Dynamic Range)

The WDR technology helps to get detailed information from the dark part without saturation from the bright part. There is no limitation of zone area with the WDR function and the color image is crisper than any other BLC functions. It combines two fields which are high shutter speed exposure in bright areas and low shutter speed exposure in dark areas into one composite image.



Normal



WDR



Pixel

Short for Picture Element. A pixel is the smallest area of a television picture capable of being delineated by an electrical signal passed through the system of part thereof. The number of picture elements (pixels) in a complete picture, and their geometric characteristics of vertical height and horizontal width, provide information on the total amount of detail which the raster can display and on the sharpness of the detail, respectively.



Day & Night

Lighting conditions are no longer a consideration with Day & Night function. In low light, it converts the image from color to monochrome automatically.

ICR (Infrared Cutoff Removal)

The IR cut filter is on when the camera is operating as a color camera for precise color reproduction. And the filter is off for increasing light sensitivity in monochrome mode.



Day



Night



BLC (Back Light Compensation)

The aim of backlight compensation technology is to allow the camera to find the best picture conditions in any environment and automatically give the necessary light level compensation, so that users can always obtain a clear picture, the finest detail and perfect light contrast. It is the feature which electronically compensates for high background lighting to give detail which would normally be silhouetted.



Normal



WDR



Normal



BLC

CAMERA TERMS & FEATURES



Spotlight BLC Capability

Spotlight BLC (Back Light Compensation) is Samsung Techwin's unique BLC technology that detects if any strong spots of light exist and compensates for the area as needed to produce clearer images. Spotlight BLC is especially effective for reading the number-plates of cars in streets or parking lots at night.



Normal



Spotlight BLC



Automatic White Balance

Automatic white balance technology is a useful function of adjusting of color temperature in indoors and outdoors. The color of the conventional camera is inclined to be blue or red. Generally the color temperature in indoor ranges approximately from 2,500°K to 4,000°K with red. On the other hand, the color temperature in outdoor ranges from 7,000°K to 10,000°K with blue. The automatic white balance technology makes a true color image without tending to be red or blue color. With the powerful automatic white balance, user can select the white balance according to the circumstance.



MD (Motion Detection)

The unit transmits alert signal when it detects a motion of an object on the screen. If the camera is connected with an external alarm, user can pay attention to the screen when it sounds alarm. This feature is useful when user has to monitor several screens simultaneously. The area zone can be assigned by OSD setting with the sensitivity control.



Motion Detected



Privacy Image Masking

For the protection of privacy, users can set a masking area not to be under surveillance. It is free to set up a area position and size.



OSD (On Screen Display)

All Functions can be controlled easily by pressing the button of the OSD menu key of the camera.

OSD functions

SETUP	
→ CAMERA ID	OFF
BACKLIGHT	WDR ↓
WHITE BAL.	ATW ↓
MOTION DET.	OFF
DC	↓
LENS	ESC
SHUTTER	↓
AGC	MIDDLE
SENS UP	AUTO ↓
SSNR	MIDDLE
SPECIAL	↓
EXIT	



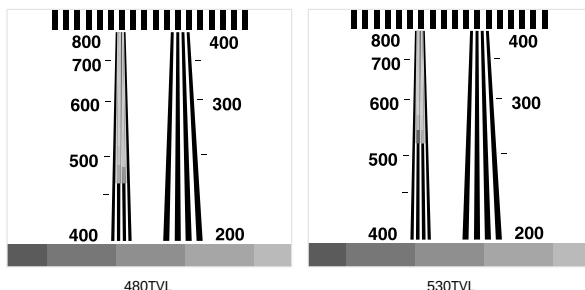
Dual Power

The units accept either 24V AC or 12V DC power sources and will automatically switch to the appropriate mode upon receiving power.



Resolution

The maximum number of individual picture elements that can be distinguished in a single scanning line. The resolution of a camera is usually expressed in terms of horizontal resolution TV Lines (TVL).



EIAJ TEST CHART



AGC (Automatic Gain Control)

A circuit for automatically controlling amplifier gain in order to maintain a constant output voltage with a varying input voltage within a predetermined range of input-to-output variation.



RS-232C

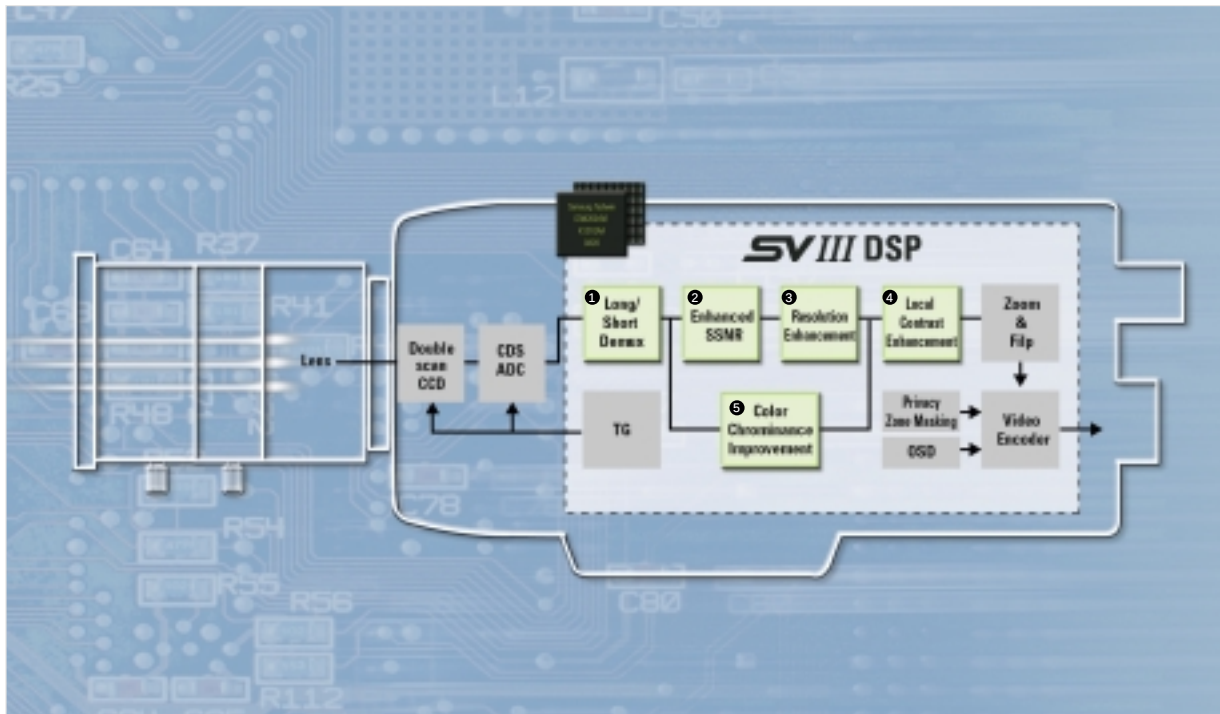
A standard that describes the physical interface and protocol for relatively low-speed serial data communications. It is used in PCs to talk to and exchange data with modems and other serial devices.

CAMERA TERMS & FEATURES



SVIII (Super Vision), Ultimate solution for all-time clear images

SVIII



1. Wide Dynamic Range

The SVIII interfaces a double-speed scan CCD, allowing wider dynamic range capturing from the sensor. Using two inputs, 12 bits each, the SVIII can actually handle over 80db of dynamic range. This vast information is handled within the DSP using bus width of up to 23 bits for its internal calculations, to ensure no losing of data. The dynamic range is then compressed into 10 bits using non-linear, adaptive dynamic range compression algorithm.

2. Enhanced Sensitivity

The SVIII DSP implements powerful sensitivity technology that features a motion adaptive, 3D filtering of the video signal to optimize the signal-to-noise, allowing much better visibility in low-light conditions, at full frame-rate. It also has day and night (ICR) capability, and gives colors even in significantly low light conditions when other cameras already show B/W images.

3. Enhanced Resolution

The SVIII achieves enhanced resolution of 520TV lines with color sensor (standard cameras feature 470-480TV lines). The new DSP implements adaptive de-mosaic color reproduction algorithm, and extracts more fine details from each pixel without the typical aliasing effects. This feature allows the SVIII cameras to reach resolution of more than 520TV lines with color sensor, out of the theoretical 570TV lines that is possible when using monochrome sensor.

4. Advanced Local Contrast

The SVIII DSP features advanced local contrast enhancement techniques, to achieve good contrast even in difficult lighting conditions. Differing from other contrast-enhancement techniques, such as histogram stretching, or histogram equalization, this is done on a local basis, and not on the whole image, so it works well even in conditions where intrimage contrast is good, meaning that even if there are dark and bright zones in the image, and it has good global contrast, yet the local fine-details can enjoy from local contrast handling.

5. Superior Color Handling

The SVIII unique color metering enables the extended white-balancing range allowing reproduction of accurate colors with wide range of lighting sources. This also means that white balancing can be detected and color mode is supported at low-light situation.

CAMERA TERMS & FEATURES

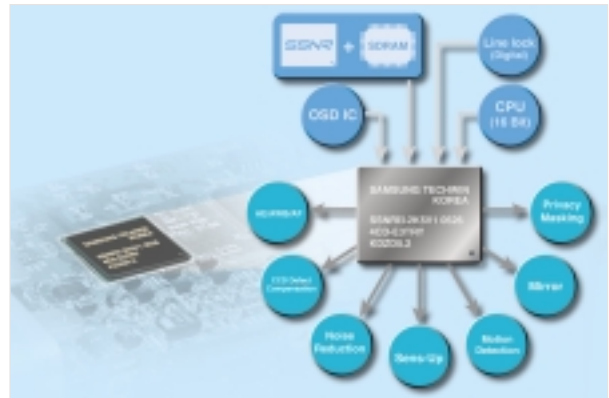


WIII, Highly integrated camera engine

The WinnerIII, a proprietary powerful DSP engine attains not only the ultra high resolution images but also various intelligent functions. All these essential functions have been successfully integrated into a single chip, which realizes genuine cost effectiveness of the camera.

Samsung's WIII enables the camera to conduct surveillance with higher resolution and adaptive image processing algorithms through the use of the increased internal memory and improved software efficiency.

WIII DSP Chip



Sharp images 530TV lines

The WIII cameras are packed full of professional CCTV technologies. Advanced Samsung optics, a high performance Super HAD CCD imager and WIII combine to deliver high resolution of 530TV lines translating into sharp, clear images. It enables to see clearly in the dark, which is perfect for low light circumstances.



Conventional Camera



WIII Camera

High sensitivity with sens-up Day & Night capability

The WIII ensures high resolution color images down to an 0.3Lux @ F1.2 in daytime and when light levels fall even to a certain level the camera automatically switches to monochrome mode. The cameras boast excellent min. illumination of as low as 0.002Lux in color using Sens-up function (Max.128X).



Conventional Camera

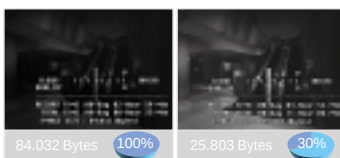


WIII Camera

Removing picture noise Disk-saving effect with built-in SSNR

It comes equipped with SSNR, a unique super noise reduction technology that dramatically reduces both random and fixed noise and at the same time produces a high signal to noise ratio and no ghost effect. In simple terms it enables a higher level of identification. An additional benefit of this technology is the reduced file size of recorded images. A DVR's recorded file size is reduced by a massive 70% when using a MPEG format and by 40% when using a JPEG format.

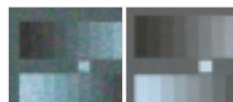
Disk Saving Effect



Conventional Camera

WIII Camera

Removing Picture Noise



Conventional Camera

WIII Camera

Intelligent Motion Detection

WIII is also equipped with the internal ability to detect motion in the scene they are viewing. Users can easily configure the size and position of up to 4 required zones.

Privacy Masking

When a camera is observing a wide area, the captured images can be "masked" for privacy purposes. Users can easily configure the size and position of up to 4 required privacy zones.

Easy to use OSD menu

The unit supports user-friendly on screen display capability for improved ease of operation.

Wide range Automatic White Balance

WIII's automatic white balance technology allows true color images without tending to be red or blue, which covers extensive color temperature of 1,800°K to 10,500°K.

CAMERA TERMS & FEATURES



SSNR (Samsung Super Noise Reduction)

Clearer & Crisper Image in Low Light

SSNR is a state-of-the-art technology exclusively developed by Samsung Techwin. With this superior technology, a camera can provide virtually the same image of what it actually sees by remarkably reducing random and fixed noise under low illumination. With more than 30 years of manufacturing experience in this specialized field, Samsung Techwin always takes the initiative in providing customers with a superior level of security systems through constant devotion to technical advancement.

Outstanding Performance in Removing Picture Noises

Noise appearance on images is an inevitable phenomenon when pictures are shot especially under unfavorable lighting conditions, which commonly induces users to obscure images. However with the SSNR technology applied, pictures are much more vivid and distinct as noise on the pictures is dramatically reduced to an invisible level which conventional noise deminishing technology, DNR (Digital Noise Reduction) has not been able to achieve.

Visibly Enhanced Sensitivity

Another prominent strength of the SSNR technology is its enhanced sensitivity in lowlight situations. SSNR-applied Cameras are exceptionally superior to other 1/3" CCD cameras in terms of sensitivity as their ability to recognize a subject in poorly-lit environment has been remarkably improved. In other words, the SSNR units create a marked contrast to competitors' products when operated under identically low-illuminated condition as they produce much brighter images of a subject.

Ghosting-Free Pictures

Along with picture noise, ghosting is one of the critical obstacles to obtaining a sharp and sophisticated image under a tough low-light situation. Ghosting means a shadowy or weak image in the received picture, offset to either the right or to the left of the primary image. The unique SSNR technology is now made available in the new Samsung Techwin camera series, bringing the benefits of superb low light sensitivity and extraordinarily advanced high picture quality to our CCTV users.

Substantial Disk-Saving Effect

The SSNR technology also has an excellent disk-saving effect. The recorded image size of the SSNR camera is considerably smaller than that of ordinary cameras. As a matter of course, the recording capacity of a DVR significantly increases. This notable camera cuts down the file size recorded on a DVR by 70 percent when using an MPEG format DVR and 40 percent with a JPEG format DVR.



SSNR Off



SSNR On



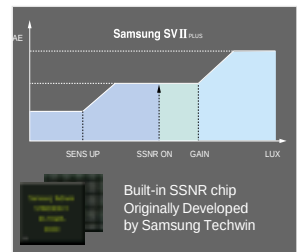
SSNR Off



SSNR On



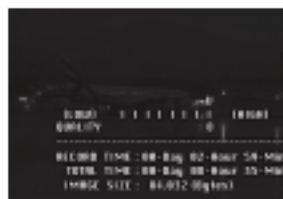
Powerful Sensitivity



SSNR Off



SSNR On



84.032 Bytes

100%

SSNR Off



25.803 Bytes

30%

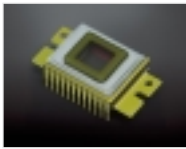
SSNR On

CAMERA TERMS & FEATURES

SHC-750, Ultra Sensitive Night Surveillance Solution

The Samsung Techwin SHC-750 is an extreme low light sensitivity camera that captures a subject hiding in total darkness and shielded from human sight, at a speed of 30fps in full-frame color. It is the cutting-edge high-tech security solution for all highly sensitive areas, including airports, harbors and important military properties.

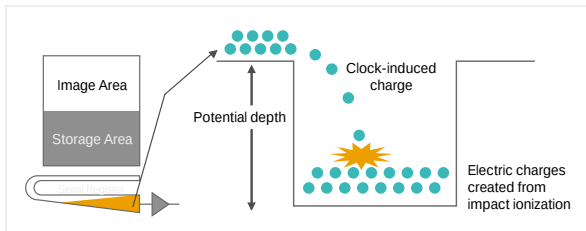
EM-CCD (Electron Multiplying Charge Coupled Device)



The difference between an electron multiplying structure and the conventional CCD is in the gain register; the EM structure is positioned between the end of the shift register and the output amplifier. The gain register has two independent electrodes and each has its own electric potential.

The large electric field generated between the two electrodes is strong enough to cause "impact ionization" and this generates new electrons that glow much brighter than the conventional CCD, making it possible to achieve 30fps full color video images without noise, even in the dark.

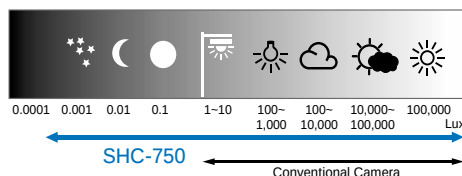
By transferring a naturally generated clock-induced charge into deep potential, impact ionization (electrons impacting Si and creating an electron-hole pair) can be created to generate a second charge. By repeating this impact ionization inside a chip, electron multiplying is made possible without overlapping read-out noise.



Conventional Low Light Camera



SHC-750



Perfect Combination of 1/2" EM-CCD and Proprietary DSP Engine

The SHC-750 uses a 1/2" EM-CCD chip that delivers light sensitivity 100 times better than average, and its Samsung Techwin exclusive DSP chip can achieve an amazing light sensitivity of 0.008 Lux@F1.2 in color or 0.000003Lux@F1.2 in Sens-up mode.



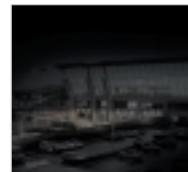
Conventional Camera



SHC-750

Full Frame, Full Color Image Even in Extreme Darkness

The ultra low light capability of the SHC-750 shines especially bright on a pitch-dark night with no moon. While an average low light camera produces noisy blurred images in B/W, the SHC-750 can deliver 30fps full-frame video images of the same subject - in color. Identifying the subject is a whole lot easier with the SHC-750.



Conventional Camera



SHC-750

100X More Powerful Low Light Sensitivity

With its built-in Electron Multiplying CCD (EM-CCD), the Samsung Techwin SHC-750 has a light sensitivity that is more than 100 times more powerful than average cameras.

24-Hour Optimized Surveillance with ICR Day & Night

Using the ICR Day & Night feature means you can use one camera as two - one for color and the other for B/W. This feature analyses image signals internally and automatically turns them into either color (day) or B/W (night) for optimum image quality 24-hours a day.



Day



Night

Cleaner, Sharper Image with Exclusive SSNR Technology

The breakthrough noise reduction technology SSNR is built into the camera to eliminate any noise associated with low light environments. Ghost and blurring effects are reduced dramatically, leaving the image clean and vivid.

SHC-750

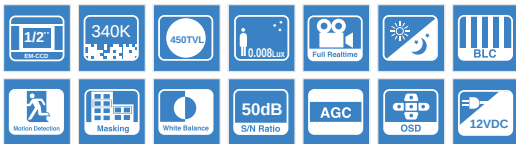


1/2" EM-CCD, Extreme Ultra Low Light Camera

SHC-750

Outline

The SHC-750 adds a new level of performance in day & night vision, enhancing target recognition and identification under low light conditions. The camera is an extremely high sensitivity, 24-hour video camera, which outperforms the competition across the range. It offers outstanding performance from bright sunlight to overcast starlight and below. Incorporating an electron-multiplying CCD (EM-CCD), the SHC-750 amplifies very low light signals and can reproduce color images in full motion in extreme low illuminations. The camera delivers 450TV line resolution with a maximum sensitivity of 0.008Lux@F1.2 in the normal color mode, which is approximately 100 times more powerful than that of standard security cameras.

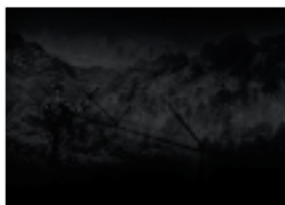


Features

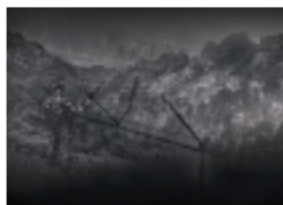
- 1/2" EM-CCD (Electron Multiplying CCD) with 340K pixels
- Full-frame motion image in color in extreme low light
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutoff Filter Removal)
- High resolution of 450TV lines (Color), 470TV lines (B/W)
- Min. illumination of 0.008Lux@F1.2 (Color)
0.0005Lux@F1.2 (B/W)
0.00006Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection
- RS-485 remote control
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 12V DC

Perfect Combination of 1/2" EM-CCD and Proprietary DSP Engine

The SHC-750 uses a 1/2" EM-CCD chip that delivers light sensitivity 100 times better than average, and its Samsung Techwin exclusive DSP chip can achieve an amazing light sensitivity of 0.008Lux@F1.2 in color or 0.00003Lux@F1.2 in Sens-up mode.



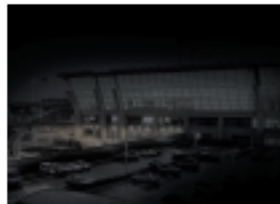
Conventional Camera



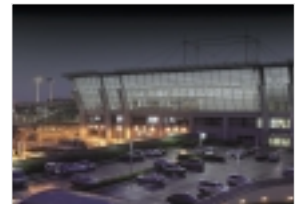
SHC-750

Full Frame, Full Color Image Even in Extreme Darkness

The ultra low light capability of the SHC-750 shines especially bright on a pitch-dark night with no moon. While an average low light camera produces noisy blurred images in B/W, the SHC-750 can deliver 30fps full-frame video images of the same subject - in color. Identifying the subject is a whole lot easier with the SHC-750.



Conventional Camera



SHC-750

24-Hour Optimized Surveillance with ICR Day & Night

Using the ICR Day & Night feature means you can use one camera as two - one for color and the other for B/W. This feature analyses image signals internally and automatically turns them into either color (day) or B/W (night) for optimum image quality 24-hours a day.



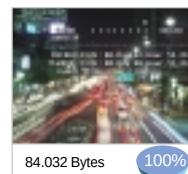
Day



Night

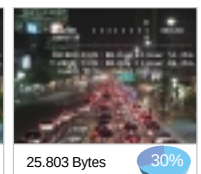
Noiseless, Vivid Image Quality with Less DVR Capacity

The breakthrough noise reduction technology SSNR is built into the camera to eliminate any noise associated with low light environments. Ghost and blooming effects are reduced dramatically, leaving the image clean and vivid. An added benefit is that the HDD required capacity for DVR recording is substantially reduced by up to 70%, due to the SSNR noise reduction technology.



84,032 Bytes

Conventional Camera



25,803 Bytes

SHC-750

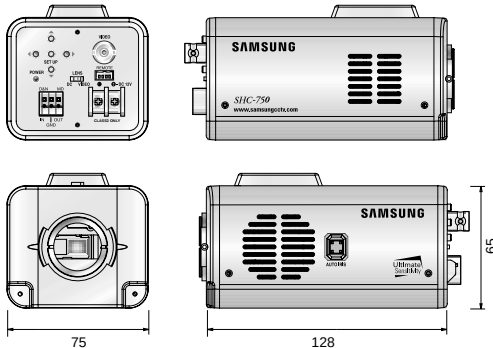
SHC-750 | 1/2" EM-CCD, Extreme Ultra Low Light Camera

Technical Specifications

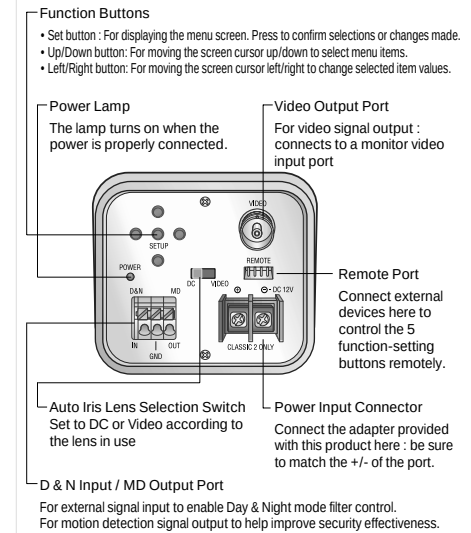
Mode	SHC-750N	SHC-750P
Power Source	12V DC ($\pm 10\%$)	
Power Consumption	Max. 16.8W	
Image Pick-up Device	1/2" EM-CCD (Electron Multiplying CCD)	
Total Pixels	680(H) x 500(V)	
Effective Pixels	658(H) x 496(V)	
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 450TV lines (Min.) / B/W : 470TV lines (Min.)	
Video Output	1.0Vp-p / 75 Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75 Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.008Lux@F1.2 (Normal color mode)	
	0.0005Lux@F1.2 (B/W mode) 0.0006Lux@F1.2 (Sens-up mode)	
Back Light Compensation	Low / Middle / High / Off selectable	
Day & Night	Color / B/W / Auto (ICR filter change) / EXT selectable	
Gain Control	Low / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual (1/60 ~ 1/120,000sec)	Auto / Manual (1/50 ~ 1/120,000sec)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Built-in alarm output connector)	
Privacy Function	On / Off selectable (4 Programmable zones)	
Communication	RS-485	
Iris Control	DC / Video	
Lens Mount	C / CS-mount (Easy focus type)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20 ~ 90% RH	
Dimensions	75(W) x 65(H) x 128(D)mm	
Weight	600g	

Dimensions

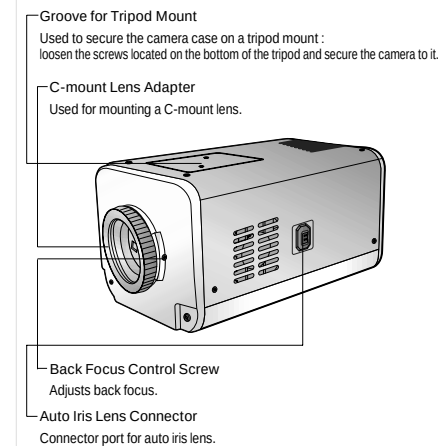
Unit : mm



Rear Panel



Side Panel



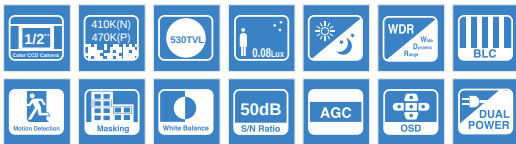
SHC-740

1/2" Ultra Low Light, High Resolution Camera

SHC-740

Outline

The SHC-740 is a product of an optimum combination of 1/2" high performance CCD and Samsung SVIII DSP chip that opened a new chapter in the low-light level technology, and its high resolution image surveillance function enables the military to identify objects clearly even in the dark. It provides the best quality and performance in low-light level surveillance in those areas which require a high degree night-time surveillance such as airports, harbors, roads, large scale industrial sites and military establishments, e.g, a truce line.



Features

- 1/2" Ex-view HAD color CCD with 410K pixels(N), 470K pixels(P)
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutoff Removal)
- High resolution of 530TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.08Lux@F1.2 (Color)
0.04Lux@F1.2 (Turbo)
0.01Lux@F1.2 (B/W)
0.0006Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection, WDR
- RS-232C remote control
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC

Samsung's thorough quality test, strong durability for outdoor use

In order to ensure that the products achieve the highest possible performance in any circumstance, we, SAMSUNG TECHWIN, do our best to carry out many quality tests such as an electrical reliability test including static electricity, impulse noise, power fluctuation range, temperature range guarantee test in different environments, impact test, vibration test for transporting products and day & night durability test. All the limit values for the tests have been maximized specifically so that SHC-740 can withstand extreme outdoor conditions and achieve the best image in those conditions. As a result, we have achieved trustworthy quality in our products.



Excellent color super lowlight surveillance of 0.0006Lux

The SHC-740 has a built-in 1/2" Ex-view HAD CCD and also employs the Samsung SVIII DSP chip resulting in a super low-light level of 0.08Lux in normal color mode and 0.0006Lux@F1.2 in Sens-up mode. Therefore, objects can be clearly identified even in darkness.



Clear image without noise, 70% DVR capacity reduction

SVIII chip employs SSNR to provide a clear image by blocking video noise and preventing dragging and stretching of image which is normally hard to avoid in low-light level surveillance. This makes easier the identification of vehicle registration number and objects and also reduces up to 70% the DVR capacity.

Complete blocking of low-light level noise



Great reduction in DVR recording capacity



Electrical reliability test



Impulse noise test



Temperature range guarantee test



Vibration test



Transporting products test



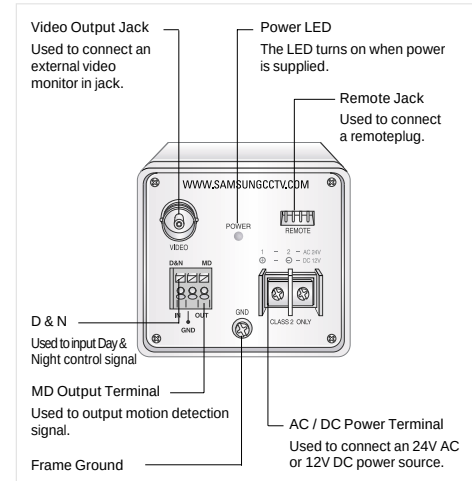
Day & Night durability test

SHC-740 | 1/2" Ultra Low Light, High Resolution Camera

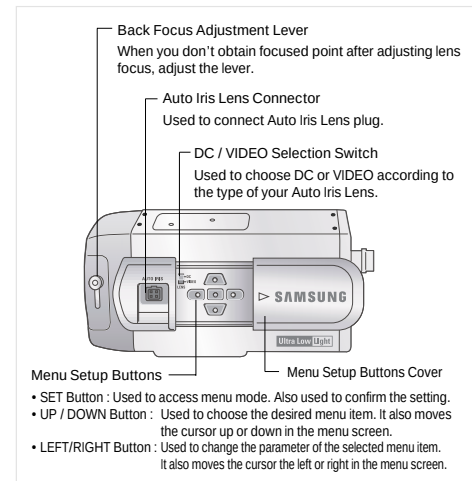
Technical Specifications

Mode	SHC-740N	SHC-740P
Power Source	24V AC / 12V DC (±10%)	
Power Consumption	Max. 4.5W	
Image Pick-up Device	1/2" Ex-view HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interface 525 Lines / 60 Fields / 30 Frames	2 : 1 Interface 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 530TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.08Lux@F1.2 (Normal color mode)	
	0.04Lux@F1.2 (Turbo mode)	
	0.01Lux@F1.2 (B/W mode)	
	0.0006Lux@F1.2 (Sens-up mode)	
Wide Dynamic Range	42dB	
Day & Night	Color / B/W / Auto (ICR filter change) / EXT selectable	
Gain Control	Low / High / Turbo / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/100,000sec)	Auto / Manual selectable (1/50 ~ 1/100,000sec)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Built-in alarm output connector)	
Digital Zoom	Built-in (~8X, Pan / Tilt)	
Privacy Function	On / Off selectable (4 Programmable zones)	
Communication	RS-232C	
Iris Control	DC / Video	
Lens Mount	C / CS-mount (Easy focus type)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	Max. 90% RH	
Dimensions	69(W) x 56(H) x 122(D)mm	
Weight	480g	

Rear Panel

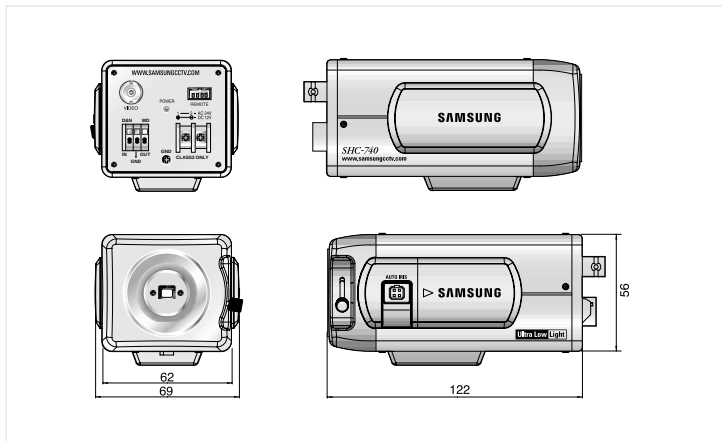


Side Panel



Dimensions

Unit : mm



SHC-730

1/3" Low Light, WDR, High Resolution Camera

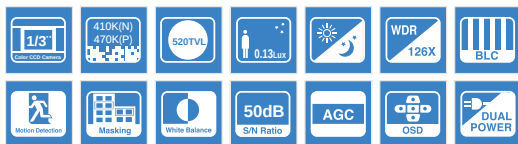
SHC-730

Outline

The SHC-730 is a 1/3" CCD professional-quality high sensitivity & WDR color camera that incorporates SVIII DSP system. It provides improved low-light sensitivity of 0.13Lux @F1.2 in normal color mode, a 126 times more extended dynamic range and more sophisticated images with a horizontal resolution of 520TV lines. It is truly an optimized surveillance solution covering all the variable light conditions ranging from the extreme darkness to harsh backlight.



Acknowledged as 'Recommended & Outstanding' by Benchmark Magazine's Independent Testing



Features

- 1/3" Vertical double density color CCD with 410K pixels(N), 470K pixels(P)
- Enhanced WDR function (SVIII) : Max. 52dB
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutoff Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.13Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.001Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection
- RS-232C remote control
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC

Unmatched sensitivity in the dark

The SHC-730 gives the best performance under extremely low light conditions. It substantially minimizes picture noise and suppresses ghosting and blooming effects as well as provides a revolutionary high sensitivity and unmatched picture quality in extremely poor or unpredictable lighting conditions.

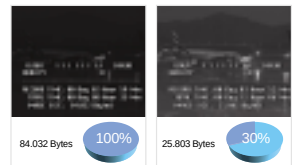
Removing Picture Noise



Conventional Camera

SHC-730

Disk Saving Effect

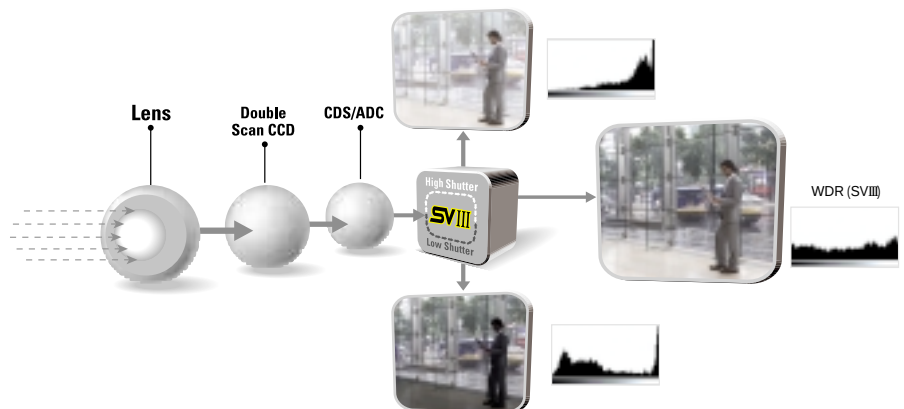


Conventional Camera

SHC-730

Outstanding wide dynamic range

The SVIII DSP technology employs multiple histogram-based image analysis in order to ensure the highest level of performance not only for ultra-low-light imaging, but for wide dynamic range applications. This realizes a 126 times extended dynamic range which is equivalent to an outstanding dynamic range of 52dB.

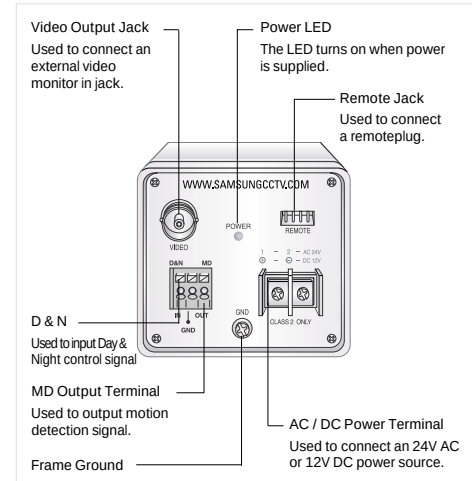


SHC-730 | 1/3" Low Light, WDR, High Resolution Camera

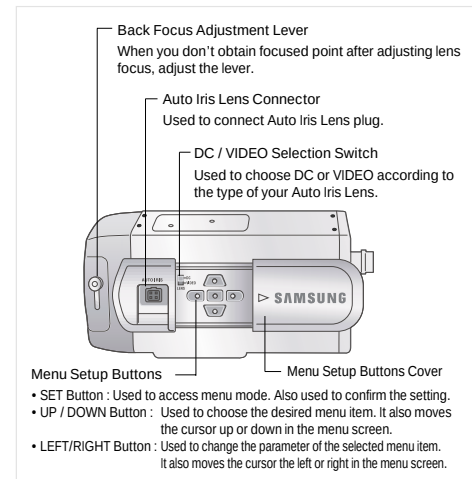
Technical Specifications

Mode	SHC-730N	SHC-730P
Power Source	24V AC / 12V DC (±10%)	
Power Consumption	Max. 4.5W	
Image Pick-up Device	1/3" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.13Lux@F1.2 (Normal color mode)	
	0.01Lux@F1.2 (B/W mode)	
	0.001Lux@F1.2 (Sens-up mode)	
Wide Dynamic Range	52dB	
Day & Night	Color / B/W / Auto (ICR filter change) / EXT selectable	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High selectable	
Motion Detection	MD1 / MD2 / Off selectable (Built-in alarm output connector)	
Digital Zoom	Built-in (~8X, Pan / Tilt)	
Privacy Function	On / Off selectable (4 Programmable zones)	
Communication	RS-232C	
Iris Control	DC / Video	
Lens Mount	C / CS-mount (Easy focus type)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	Max. 90% RH	
Dimensions	69(W) x 56(H) x 122(D)mm	
Weight	480g	

Rear Panel

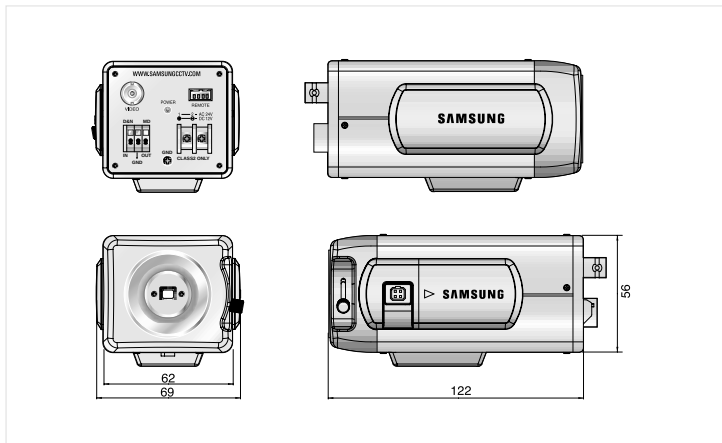


Side Panel



Dimensions

Unit : mm



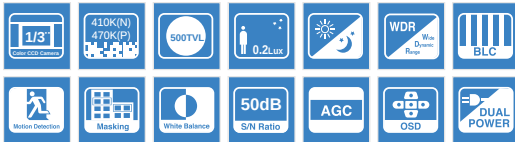
SHC-721A

1/3" Low Light, WDR Camera

SHC-721A

Outline

The SHC-721A is a high resolution color camera equipped with 1/3-inch double scan CCD and Super Vision II plus DSP which delivers a powerful dynamic range. It produces crisper images, even in severe lighting conditions of large contrasts between lightness and darkness. Also the unit permits high quality pictures to be captured in low minimum 0.003Lux condition. With SSNR, it reduces random and fixed noise under low illumination and produces a higher S/N ratio and no ghost effect.

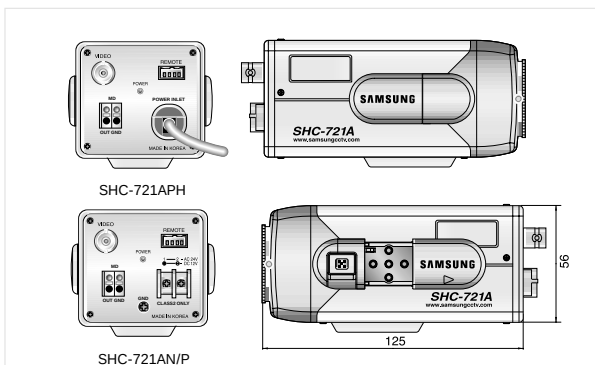


Features

- 1/3" Vertical double density color CCD with 410K pixels(N), 470K pixels(P)
- WDR function (SVII_{PLUS}) : Wide Dynamic Range
- Clear & Crisp image with SSNR
- Day & Night with ICR (Infrared Cutoff Filter Removal)
- High resolution of 500TV lines (Color), 550TV lines (B/W)
- Min. illumination of 0.2Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.003Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection
- RS-232C remote control
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC, 230V AC

Dimensions

Unit : mm



Technical Specifications

Mode	SHC-721AN	SHC-721AP	SHC-721APH
Power Source	24V AC / 12V DC (±10%)		230V AC (±10%)
Power Consumption	Max. 330mA (DC) / Max. 4.0W (AC)		Max. 4.2W
Image Pick-up Device	1/3" Vertical double density interline CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace	2 : 1 Interlace	
	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames	
Synchronization	Internal / Line lock selectable		
Scanning Frequency	Horizontal : 15.734KHz	Horizontal : 15.625KHz	
	Vertical : 59.94Hz	Vertical : 50Hz	
Horizontal Resolution	Color : 500TV lines (Min.) / B/W : 550TV lines (Min.)		
Video Output	1.0Vp-p / 75Ω	1.0Vp-p / 75Ω	
	(Video 0.714Vp-p, Sync 0.286Vp-p)	(Video 0.7Vp-p, Sync 0.3Vp-p)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)		
Min. Illumination	0.2Lux@F1.2 (Normal color mode)		
	0.01Lux@F1.2 (B/W mode)		
	0.003Lux@F1.2 (Sens-up mode)		
Day & Night	Color / B/W / Auto1 / Auto2 selectable (ICR filter change)		
Gain Control	AGC-L / AGC-H / Off selectable		
Wide Dynamic Range	46dB		
White Balance	W-ATW / S-ATW / H-ATW / L-ATW / AWC / Manual selectable		
Electronic Shutter Speed	Auto / Manual selectable	Auto / Manual selectable	
	(1/60 ~ 1/200,000sec)	(1/50 ~ 1/200,000sec)	
Sens-up	On / Off selectable (Selectable limit ~ 128X)		
OSD	Built-in		
SSNR	Low / Middle / High selectable		
Motion Detection	On / Off selectable (Built-in alarm output connector)		
Digital Zoom	Built-in (~8X, Pan / Tilt)		
Privacy Function	On / Off selectable (4 Programmable zones)		
Communication	RS-232C		
Iris Control	DC / Video		
Lens Mount	C / CS-mount (Easy focus type)		
Operating Temperature	-10°C~ +50°C		
Operating Humidity	30% ~ 90% RH		
Dimensions	69(W) x 56(H) x 125(D)mm		
Weight	460g		500g

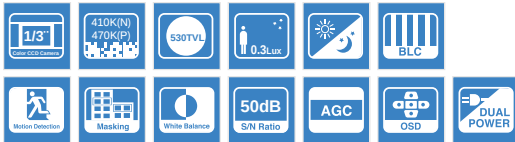
SDN-550

1/3" High Resolution, Day & Night Camera

SDN-550

Outline

SDN-550 is a high performance surveillance camera built with Samsung Techwin WIII DSP chipset for outstanding image resolution and multiple surveillance capabilities. It supports powerful ICR (Infrared Cutfilter Removal) Day & Night capability and the combination of 530TV lines, 0.002Lux light sensitivity, and SSNR noise reduction technology providing crystal clear image quality. The performance of the SDN-550 will be especially appreciated in huge office buildings, department stores, car parks, perimeters of major industrial facilities, or any other area that requires 24 hour high level surveillance.



Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cut filter Removal)
- High resolution of 530TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.3Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Unique BLC function : Spotlight BLC
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC, 12V DC, 230V AC

Optimal 24-hour resolution with ICR Day & Night capability

The Day & Night capability of the SDN-550 uses ICR (Infrared Cutfilter Removal), a method that enables 530TV lines color image during the day and automatically switches to 570TV lines B/W during the night to provide clear-cut images of any movement. The SDN-550 is truly the optimum choice for your 24-hour surveillance needs.



Day



Night



High resolution of 530TV lines

High resolution of 530TV lines is possible thanks to the perfect fusion of Super HAD CCD sensor high performance and WIII DSP chip of Samsung Techwin technology. For superior resolution, the camera switches to a B/W mode with 570TV lines automatically when night falls.



Conventional Camera



SDN-550

Sensitivity of 0.002Lux without noise

The SDN-550 can capture a clear image of a subject in less than adequately lighted environments, or even in the dark. Its light sensitivity is as low as 0.002Lux@F1.2 which means it doesn't miss much. No other general purpose camera can say the same. The SSNR technology eliminates any noise or ghost effect improving low light images even further and the space requirement for DVR recording can be reduced by up to 70 percent.



Conventional Camera



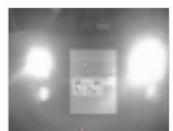
SDN-550

Unique Spotlight BLC Capability

Spotlight BLC (Back Light Compensation) is Samsung Techwin's unique BLC technology that detects if any strong spots of light exist and compensates for the area as needed to produce clearer images. Spotlight BLC is especially effective for reading the number-plates of cars in streets or parking lots at night.



Conventional Camera



SDN-550

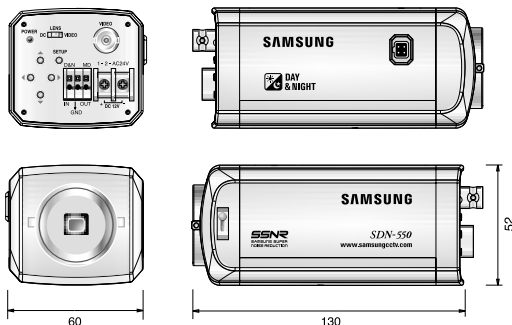
SDN-550 | 1/3" High Resolution, Day & Night Camera

Technical Specifications

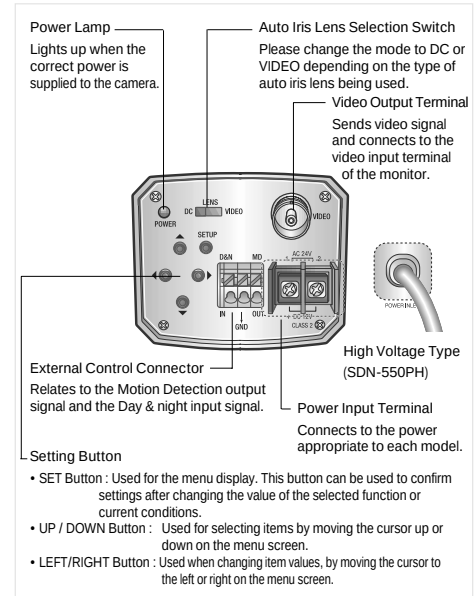
Mode	SDN-550N	SDN-550P	SDN-550PH
Power Source	12V DC / 24V AC (±10%)		230V AC (±10%)
Power Consumption	Max. 3.5W		Max. 4.0W
Image Pick-up Device	1/3" Super HAD CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 60 Fields / 30 Frames	
Synchronization	Internal / Line lock selectable		
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz	
Horizontal Resolution	Color : 530TV lines (Min.) / B/W : 570TV lines (Min.)		
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)		
Min. Illumination	0.3Lux@F1.2 (Normal color mode)		
	0.01Lux@F1.2 (B/W mode)		
	0.002Lux@F1.2 (Sens-up mode)		
Back Light Compensation	Low / Middle / High / Spotlight / Off selectable		
Day & Night	Color / B/W / Auto (ICR filter change) / EXT selectable		
Gain Control	Low / Middle / High / Off selectable		
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)		
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)	
Sens-up	On / Off (Selectable limit 2X ~ 128X)		
OSD	Built-in		
SSNR	Low / Middle / High / Off selectable		
Motion Detection	On / Off selectable (3 Programmable zones)		
Digital Zoom	On / Off (2X ~ 10X)		
Privacy Function	On / Off selectable (4 Programmable zones)		
Iris Control	DC / Video		
Lens Mount	C / CS-mount (Easy focus type)		
Operating Temperature	-10°C ~ +50°C		
Operating Humidity	30% ~ 80% RH		
Dimensions	60(W) x 52(H) x 130(D)mm		
Weight	350g		510g

Dimensions

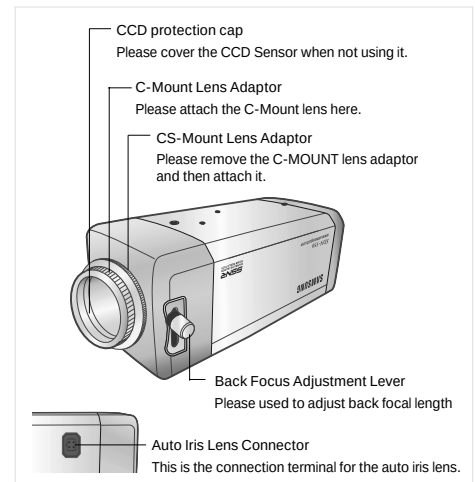
Unit : mm



Rear Panel



Side Panel



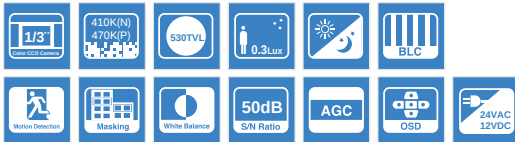
SDC-415

1/3" High Resolution, Day & Night Camera

SDC-415

Outline

The SDC-415 high resolution Day & Night camera realizes genuine cost effectiveness with absolutely no compromise on quality. High resolution color images during the day and equally high quality images at night, intelligent motion detection, privacy masking and on-screen display for easy set are all supplied as standard with the SDC-415. And unique to Samsung Techwin, the camera incorporates SSNR, Samsung Super Noise Reduction technology.



Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Removed noise & ghost images with SSNR
- Day & Night capability for 24/7 surveillance
- High resolution of 530TV lines
- Min. illumination of 0.3Lux@F1.2 (Normal color mode)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Back light compensation
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 24V AC, 12V DC, 240V AC

Ultra clear images 530TV lines

The SDC-415 is packed full of professional CCTV technologies. Advanced Samsung optics, a high performance CCD image sensor and WIII, a newly developed high performance DSP chip combine to deliver high resolution of 530TV lines translating into sharp, clear images. It enables to see clearly in the dark, which is perfect for low light circumstances.



Conventional Camera

SDC-415



As low as 0.002Lux with sens-up, Day & Night capability

The SDC-415 ensures high resolution color images down to an 0.3Lux@F1.2 in daytime and when light levels fall even to a certain level the camera automatically switches to monochrome mode. Especially the unit boasts outstanding sensitivity of as low as 0.002Lux for excellent low light operations in color using Sens-up function (Max. 128X).



Day



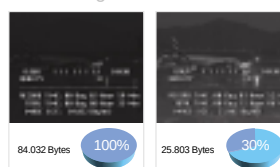
Night

Unique noise reduction technology (SSNR)

Max. 70% disk saving effect

When lighting levels are low, SSNR dramatically reduces both random and fixed noise and at the same time produces a high signal to noise ratio and no ghost effect. In simple terms the result is clear sharp images, even in the most severe lighting conditions. The absence of any "Ghost" effect, that is normally quite common in low light conditions, offers a higher level of identification - a big plus where, for example, there is a requirement to recognize number plates. An additional benefit of this technology is the reduced file size of recorded images. A DVR's recorded file size is reduced by a massive 70% when using a MPEG format and by 40% when using a JPEG format.

Disk Saving Effect



Conventional Camera

SDC-415

Removing Picture Noise



Conventional Camera

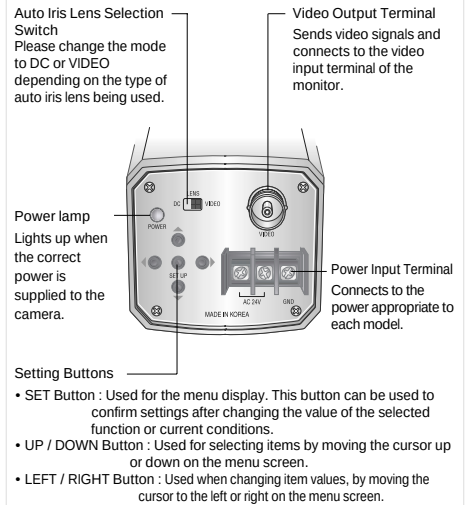
SDC-415

SDC-415 | 1/3" High Resolution, Day & Night Camera

Technical Specifications

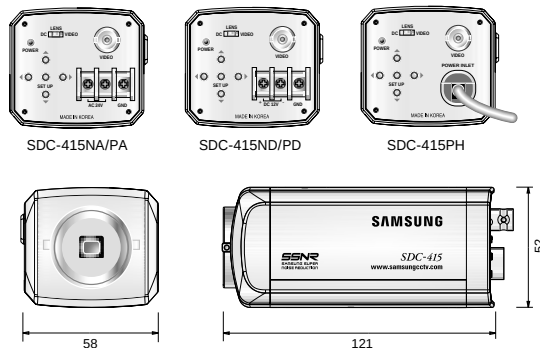
Mode	SDC-415ND	SDC-415NA	SDC-415PD	SDC-415PA	SDC-415PH
Power Source	12V DC (±10%)	24V AC (±10%)	12V DC (±10%)	24V AC (±10%)	230V AC (±10%)
Power Consumption	Max. 2.5W	Max. 3.5W	Max. 2.5W	Max. 3.5W	Max. 4.0W
Image Pick-up Device	1/3" Super HAD CCD				
Total Pixels	811(H) x 508(V)		795(H) x 596(V)		
Effective Pixels	768(H) x 494(V)		752(H) x 582(V)		
Scanning System	2 : 1 Interlace		2 : 1 Interlace		
	525 Lines / 60 Fields / 30 Frames		625 Lines / 50 Fields / 25 Frames		
Synchronization	Internal / Line lock selectable				
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz		Horizontal : 15,625KHz / Vertical : 50Hz		
Horizontal Resolution	530TV lines (Min.)				
Video Output	1.0Vp-p / 75Ω		1.0Vp-p / 75Ω		
	(Video 0.714Vp-p, Sync 0.286Vp-p)		(Video 0.7Vp-p, Sync 0.3Vp-p)		
S / N Ratio (Y signal)	50dB (AGC off, Weight on)				
Min. Illumination	0.3Lux@F1.2 (Normal color mode)				
	0.002Lux@F1.2 (Sens-up mode)				
Back Light Compensation	Low / Middle / High / Off selectable				
Day & Night	On / Auto selectable (Electrical)				
Gain Control	Low / Middle / High / Off selectable				
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)				
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)		Auto / Manual selectable (1/50 ~ 1/120,000sec)		
Sens-up	On / Off (Selectable limit 2X ~ 128X)				
OSD	Built-in				
SSNR	Low / Middle / High / Off selectable				
Motion Detection	On / Off selectable (4 Programmable zones)				
Privacy Function	On / Off selectable (4 Programmable zones)				
Iris Control	DC / Video				
Lens Mount	C / CS-mount (Easy focus type)				
Operating Temperature	-10°C ~ +50°C				
Operating Humidity	20% ~ 90% RH				
Dimensions	58(W) x 52(H) x 121(D)mm				
Weight	310g	340g	310g	340g	510g

Rear Panel



Dimensions

Unit : mm



SDC-313B NEW 1/3" High Resolution Camera

SDC-313B

Outline

The SDC-313B high resolution camera realizes genuine cost effectiveness with absolutely no compromise on quality. High resolution color images, intelligent motion detection, privacy masking and on-screen display for easy set are all supplied as standard with the SDC-313B. And unique to Samsung Techwin, the camera incorporates SSNR, Samsung Super Noise Reduction technology.

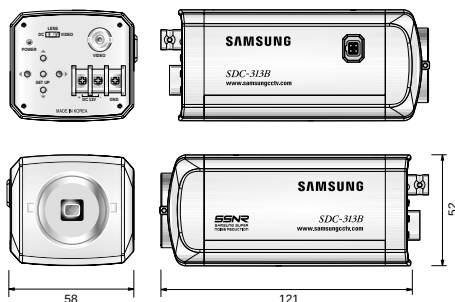


Features

- 1/3" Interline Transfer CCD with 410K pixels(N), 470K pixels(P)
- Removed noise & ghost images with SSNR
- High resolution of 530TV lines
- Min. illumination of 0.3Lux@F1.2 (Color)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Back light compensation
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 24V AC, 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SDC-313BNA	SDC-313BPD
Power Source	24V AC (±10%)	12V DC (±10%)
Power Consumption	Max. 3.5W	Max. 2.5W
Image Pick-up Device	1/3" Interline Transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 60 Fields / 30 Frames
Synchronization	Internal / Line lock selectable	Internal
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	530TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)	50dB (AGC off / Sharpness off)	
Min. Illumination	0.3Lux@F1.2 (Normal color mode) 0.002Lux@F1.2 (Sens-up mode)	
Back Light Compensation	Low / Middle / High / Off selectable	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)
Sens-up	On / Off (Selectable limit 2X ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (4 Programmable zones)	
Privacy Function	On / Off selectable (4 Programmable zones)	
Sharpness	On / Off selectable (Level adjustable)	
Iris Control	DC / Video	
Lens Mount	C / CS-mount (Easy focus type)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 80% RH	
Dimensions	58(W) x 52(H) x 121(D)mm	
Weight	340g	310g

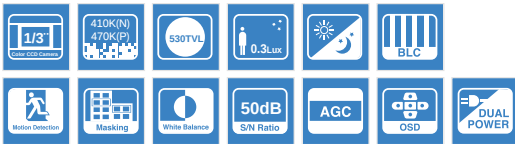
SOC-4030

1/3" High Resolution, Day & Night, Built-in 3X Varifocal Lens Camera

SOC-4030

Outline

Versatile, compact and stylish sums up the SOC-4030 high resolution day & night camera with built-in 3X varifocal lens. The SOC-4030 is easy to install and able to capture crisp clean images in light levels as low as Max. 0.002Lux using WIII and unique SSNR noise reduction technology and a outstanding horizontal resolution of 530TV lines can be achieved using a high performance Super HAD CCD. Complete with easy to use on screen menu, intelligent motion detection technology and privacy masking, the SOC-4030 delivers sharp, high quality images in any environment.

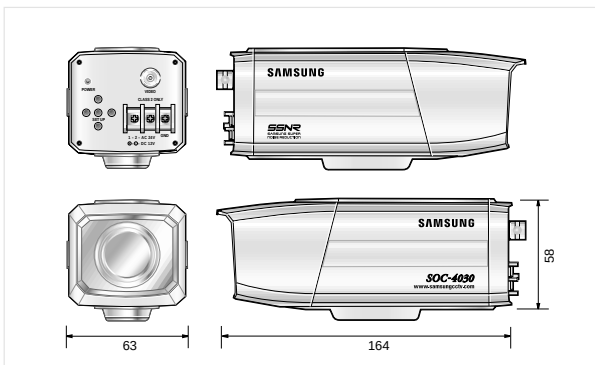


Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Removed noise & ghost images with SSNR
- Built-in 3X (f3 ~ 9mm) varifocal lens with auto iris
- Quick & easy to install, Stylish design
- Day & Night capability for 24/7 surveillance
- High resolution of 530TV lines
- Min. illumination of 0.3Lux@F1.2 (Color)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Back light compensation
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SOC-4030N	SOC-4030P
Power Source	12V DC / 24V AC (±10%)	
Power Consumption	Max. 3.5W	
Image Pick-up Devise	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	530TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.3Lux@F1.2 (Normal color mode) 0.002Lux@F1.2 (Sens-up mode)	
Back Light Compensation	Built-in	
Day & Night	On / Auto selectable (Electrical)	
Gain Control	Off / Low / Middle / High selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)
Sens-up	On / Off (Selectable limit 2X ~ 128X)	
OSD	Built-in	
SSNR	Off / Low / Middle / High selectable (Noise control)	
Motion Detection	On / Off selectable (4 Programmable zones)	
Privacy Function	On / Off selectable (4 Programmable zones)	
Max. Aperture Ratio	1 : 1.2 ~ 2.1	
Lens	3X Auto Iris varifocal lens (F1.2, f3 ~ 9mm)	
Viewing Angle	H : 31.8°(Tele) ~ 90.0°(Wide) / V : 23.9°(Tele) ~ 66.2°(Wide)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 90% RH	
Dimensions	63(W) x 58(H) x 164(D)mm	
Weight	310g	

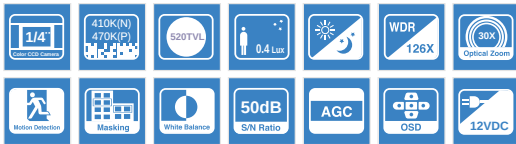
SDZ-330

1/4" Low Light, WDR 30X Zoom Camera

SDZ-330

Outline

The SDZ-330 is equipped with the world's first 30X (f3.3~99mm) optical auto focus zoom lens that ensures precise and powerful close-up capability and it achieves an outstanding trinity that is an enhanced low-light sensitivity of 0.4Lux@F1.6 in normal color mode, a 126 times wide dynamic range, and lastly sharper images with 520TV lines. It is simply a perfect answer in surveillance to a vast range of demanding locations.



Features

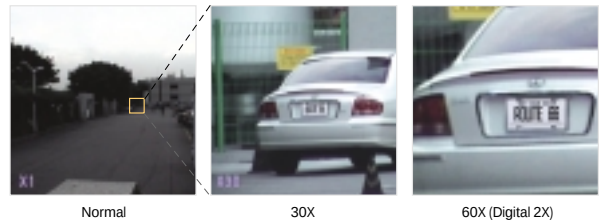
- 1/4" Vertical double density color CCD with 410K pixels(N), 470K pixels(P)
- Outstanding 30X optica zooml (f3.3 ~ 99mm) & 8X digital zoom (240X total zoom)
- Powerful 126X WDR function : Max. 52dB
- Removed noise & Ghost images with SSNR
- Day & Night with ICR (Infrared Cutfilter Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.4Lux@F1.6 (Color)
0.08Lux@F1.6 (B/W)
0.003Lux@F1.6 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Motion detection
- RS-232C remote control
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 12V DC



CAMERA

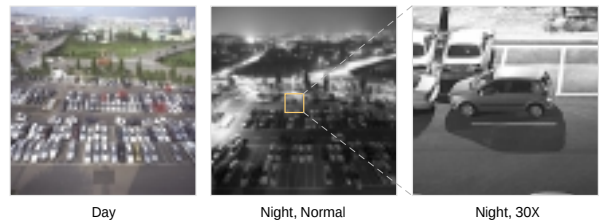
Super clear image of 520TV lines with powerful zoom

The SDZ-330 achieves enhanced resolution of 520TV lines with color sensor. The SVIII DSP implements adaptive de-mosaic color reproduction algorithm, and extracts more fine details from each pixel without the typical aliasing effects, which is perfect for low-light circumstances because it enables the camera to 'see' clearly in the dark and even peer through clouds or fog.



Superior low light performance of 0.4Lux@F1.6 in color Day & Night with ICR

The SDZ-330 camera achieves a minimum illumination of an incredibly low 0.4Lux@F1.6 in color and an amazing 0.08Lux@F1.6, which ensures that the camera can recognize subjects even in the extreme dark. It also has day and night (ICR) capability, and gives colors even in significantly low light conditions at full frame-rate when other cameras already show B/W images.



SDZ-330 | 1/4" Low Light, WDR 30X Zoom Camera

Technical Specifications

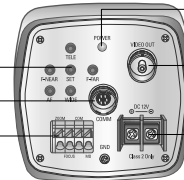
Mode	SDZ-330N	SDZ-330P
Power Source	12V DC (±10%)	
Power Consumption	Max. 3.6W	
Image Pick-up Device	1/4" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	30X, f3.3 ~ 99.0mm (F1.6 ~ 3.2)	
Min. Focus Distance	1.0m	
Angle Field of View	Horizontal : Appr. 58.0°(Wide) to 2.22°(Tele) Vertical : Appr. 44.8°(Wide) to 1.68°(Tele)	
Digital Zoom	Built-in (2X ~ 8X, Total 240X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.4Lux@F1.6 (Normal color mode) 0.08Lux@F1.6 (B/W mode) 0.003Lux@F1.6 (Sens-up mode)	
Wide Dynamic Range	52dB	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec) / Auto / Manual selectable (1/50 ~ 1/120,000sec)	
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 8 Prorammmable zones per screen)	
Preset Positions	8 Positions	
Flip	Left / Right, Up / Down selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Communication	RS-485	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 80% RH	
Dimensions	67.4(W) x 67.6(H) x 120(D)mm	
Weight	450g	
Option	System controller, Remote controller	

Rear Panel

Key Buttons

Following buttons control zoom, focus, and auto focus functions.

- WIDE Button : To widen the view. (Zoom out)
- TELE Button : To close in on a far object. (Zoom in)
- F-NEAR Button : To see a near object clearly.
- F-FAR Button : To see a far object clearly.
- AF Button : To activate auto focus just once.
- Pressing the 'SET' button locks the zoom control function of these buttons and prompts the main setup menu.



Power LED
Illuminates when power is supplied.

Video Output Jack
Used to connect an external video monitor in jack.

Power Input Terminal
Power supply terminal (12V DC±10%).

External Control Connector

Relates to the motion detection output signal. Zoom and focus functions can be controlled using external signals.

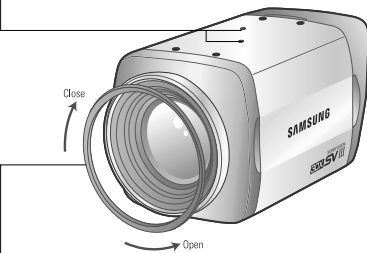
Communication Control Connector

Used to connect the Remote Controller (Optional). Includes external 'SYNC' signal input pin, which is used for the line lock function. Includes the RS-485 communication pin.

Top Panel

Tripod Mounting Bracket Screw Hole

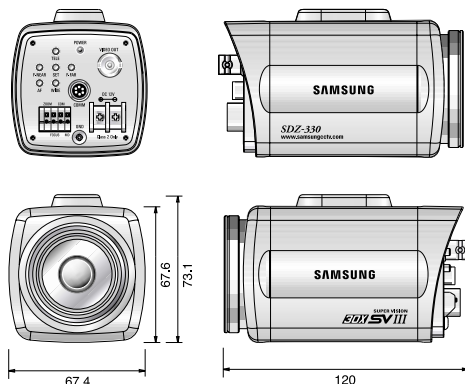
Used to fix tripod mounting bracket on top of the camera.



Front Cover Ring
Removable for replacement with a filter.

Dimensions

Unit : mm



Optional Controller

Remote Controller

System Controller



SCC-100



SCC-3100A

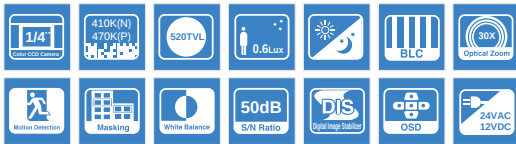
SDZ-300

1/4" High Resolution, Day & Night 30X Zoom Camera

SDZ-300

Outline

The SDZ-300 is equipped with the high performance 30X optical auto focus zoom lens that provides precise and powerful 300X close-up capability with 10X digital zoom. It employs the WIII DSP chip, which offers a Day & Night (ICR) function to achieve low light level performance of 0.1Lux and higher than 520TV lines of image quality for both day and night conditions. In addition, there are built-in functions including the convenient OSD menu, 4 zone privacy masking and motion detection for more efficient surveillance.

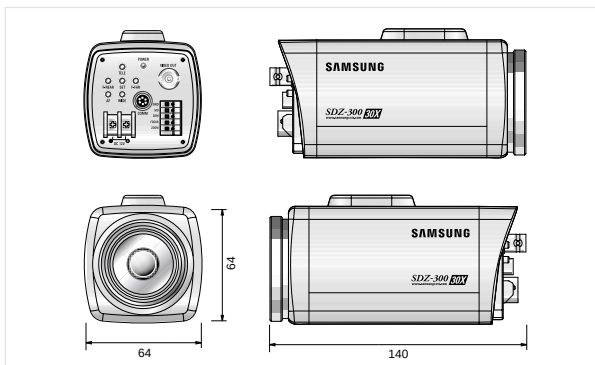


Features

- 1/4" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Powerful 300X zoom (Optical 30X zoom, Digital 10X zoom)
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutfilter Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.6Lux@F1.6 (Color)
0.1Lux@F1.6 (B/W)
0.004Lux@F1.6 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Built-in DIS (Digital Image Stabilizer)
- Motion detection • Digital flip
- RS-232C remote control • OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 24V AC / 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SDZ-300N	SDZ-300ND	SDZ-300P	SDZ-300PD
Power Source	24V AC / 12V DC (±15%)	10 ~ 14V DC	24V AC / 12V DC (±15%)	10 ~ 14V DC
Power Consumption	Max. 5W	Max. 6W	Max. 5W	Max. 6W
Image Pick-up Device	1/4" Super HAD CCD			
Total Pixels	811(H) x 508(V)		795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)		752(H) x 582(V)	
Scanning System	2 : 1 Interlace		2 : 1 Interlace	
Synchronization	525 Lines / 60 Fields / 30 Frames		625 Lines / 50 Fields / 25 Frames	
Scanning Frequency	Internal / Line lock selectable			
Scanning Frequency	Horizontal : 15.734KHz / Vertical : 59.94Hz		Horizontal : 15.625KHz / Vertical : 50Hz	
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)			
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)		1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)	
Zoom Ratio	30X, f3.3 ~ 99.0mm (F1.6 ~ 3.2)			
Min. Focus Distance	1.0m			
Angle Field of View	Horizontal : Appr. 58.0°(Wide) to 2.22°(Tele) Vertical : Appr. 44.8°(Wide) to 1.68°(Tele)			
Digital Zoom	Built-in (2X ~ 10X, Total 300X zoom)			
S / N Ratio (Y signal)	50dB (AGC off, Weight on)			
Min. Illumination	0.6Lux@F1.6 (Normal color mode) 0.1Lux@F1.6 (B/W mode) 0.004Lux@F1.6 (Sens-up mode)			
Back Light Compensation	Low / Middle / High / Off selectable			
Day & Night	Color / B/W / Auto selectable (ICR filter change)			
Gain Control	Low / Middle / High / Off selectable			
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)			
Electronic Shutter Speed	Auto / Manual selectable (1/60sec ~1/120,000sec)		Auto / Manual selectable (1/50sec ~1/120,000sec)	
Sens-up	On / Off (Selectable limit ~ 128X)			
OSD	Built-in			
SSNR	Low / Middle / High / Off selectable			
Motion Detection	On / Off selectable (Output via terminal)			
Privacy Function	On / Off selectable (Max. 32 zones / 4 Prorammmable zones per screen)			
Preset Positions	8 Positions			
Flip	Left / Right, Up / Down selectable			
Digital Image Stabilizer (DIS)	On / Off selectable			
Lens Initialization	Built-in			
Focus Control	Auto / Manual / One push selectable			
Iris Control	Auto / Manual selectable			
Communication	RS-485			
Operating Temperature	-10°C ~ +50°C			
Operating Humidity	30% ~ 90% RH			
Dimensions	64(W) x 64(H) x 140(D)mm			
Weight	410g			
Option	System controller, Remote controller			

SPD-3300

1/4" Low Light, 30X PTZ Speed Dome Camera

SPD-3300

Outline

The SPD-3300 is a high performance 30X speed dome camera that incorporates the SVIII DSP engine at its heart. It's equipped with a 30X (f3.3~99mm) optical zoom lenses and a 8X digital zoom, which gives a total zoom capability of up to 240X. It provides high horizontal resolution of 520TV lines that ensures clear identification of distant subjects. It delivers enhanced low-light sensitivity of 0.4 Lux@F1.6 in normal color mode and offers maximum of 128 preset positions, the convenient OSD menu, 8 zone privacy masking and motion detection.



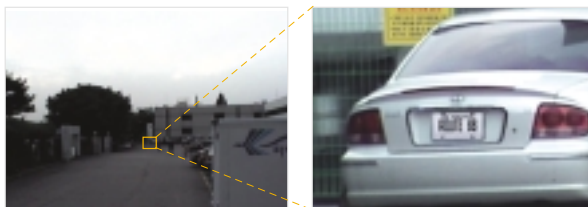
Features

- 1/4" Vertical double density color CCD with 410K pixels(N), 470K pixels(P)
- Powerful 30X optical zoom (f3.3 ~ 99mm) and 8X digital zoom
- Powerful 126X WDR function : Max. 52dB
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutoff Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.4Lux@F1.6 (Color)
0.08Lux@F1.6 (B/W)
0.003Lux@F1.6 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Multi protocols support
- Programmable 128 preset positions
- Max. 240°/sec pan speed and 360° continuous rotation
- Motion detection
- OSD (On Screen Display)
- Voltage : 24V AC
- Simple installation
- Auto surveillance functions
- RS-232C remote control
- S/N ratio of 50dB

30X Optical Zoom

(Focusing Distance : 3.3 ~ 99mm)

Equipped with the world's best optical 30X A/F zoom lens, the SPD-3300 implements powerful 240X zoom capability with 8X digital zoom. With the increased focusing distance of 3.3 ~ 99mm, the SPD-3300 captures an object from a far distance quicker and clearer.



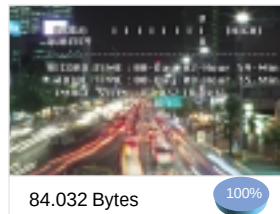
Normal

30X

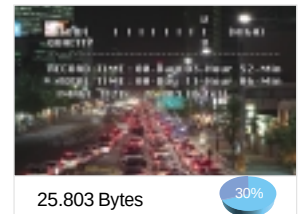


Implementation of Low Light 0.003Lux

The built-in SVIII DSP system of the SPD-3300 ensures clear recognition and visualization of an object under dark or extremely poor light conditions. With outstanding low light 0.003Lux@F1.6, the SPD-3300 detects and captures an object under any low light condition. In addition, incorporating the SSNR technology that eliminates noise and ghost effectively, the SPD-3300 dramatically improves low light image quality and saves DVR recording capacity up to 70 percent.



SSNR Off



SSNR On

Unbelievably easy installation

The SPD-3300 minimizes screen blocking and supports various installation accessories. It was designed for easy installation, so the installation process is safe, fast, and pain-free.

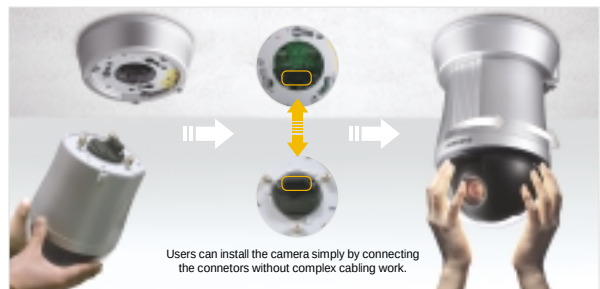


Wall Type

Ceiling Embedded Type

Ceiling Surface Type

Ceiling Type



Users can install the camera simply by connecting the connectors without complex cabling work.

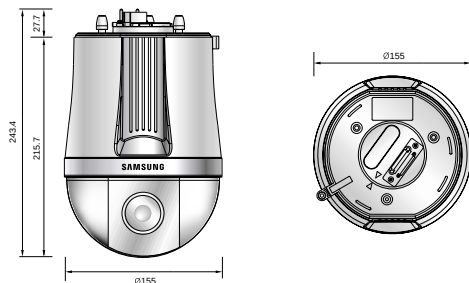
SPD-3300 | 1/4" Low Light, 30X PTZ Speed Dome Camera

Technical Specifications

Mode	SPD-3300N	SPD-3300P
Power Source	24V AC (±10%)	
Power Consumption	Max. 10W	
Image Pick-up Device	1/4" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	30X, f3.3 ~ 99.0mm (F1.6 ~ 3.2)	
Min. Focus Distance	1.2m	
Angle Field of View	Horizontal : Appr. 58.0°(Wide) to 2.22°(Tele) / Vertical : Appr. 44.8°(Wide) to 1.68°(Tele)	
Digital Zoom	Built-in (2X ~ 8X, Total 240X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.4Lux@F1.6 (Normal color mode) 0.08Lux@F1.6 (B/W mode) 0.003Lux@F1.6 (Sens-up mode)	
Wide Dynamic Range	52dB	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 8 Programmable zones)	
Preset Positions	128 Positions	
Rotation Angle	Pan : 360° Endless / Tilt : -4° ~ -184° (Digital flip)	
Rotation Speed	Pan : 240°/sec (64 step) / Tilt : 240°/sec (64 step)	
Flip	Left / Right, Up / Down selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Protocols	PELCO-D, Panasonic, Vicon, Samsung Electronics	
Communication	RS-485, RS-422, RS-232C	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 75% RH	
Dimensions	Ø155(W) x 243.4(H)mm	
Weight	2.0Kg	

Dimensions

Unit : mm



Accessories

Indoor / Outdoor Housing



STH-330PIV/POV/320PO

Embedded Housing



STH-330PEV

Ceiling Bracket



STB-330PC

Wall Bracket



STB-270PWW

Pendant Bracket



STB-496PPV

Flanger



STB-20PF

Ceiling Flange



STB-30PF

Pole Mount



STB-330PPM

Corner Mount



STB-340PCM

Pole Mount



STB-350PPM

Optional Controller



SCC-3100A

SPD-3000

1/4" High Resolution, 30X PTZ Speed Dome Camera

SPD-3000

Outline

The SPD-3000 is a high resolution 30X zoom PTZ speed dome camera that uses high performing integrated DSP chip technology for superior image quality and multiple functions. Its resolution is improved to 520TV lines, and it has the superior light sensitivity of SSNR and outstanding DIS capability built in for crystal clear images, day or night. Different areas can be assigned different settings for customized surveillance as well. Samsung Techwin requires the speed dome cameras to have impeccable qualities. Accordingly, all speed dome cameras go through rigorous tests to ensure a stability and dependability worthy of its name.

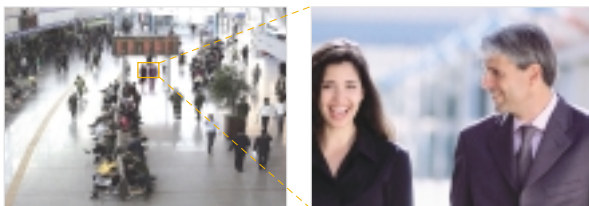


Features

- 1/4" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Powerful 30X optical zoom (f3.3 ~ 99mm) and 10X digital zoom
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutfilter Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.7Lux@F1.6 (Color)
0.1Lux@F1.6 (B/W)
0.005Lux@F1.6 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Built-in DIS (Digital Image Stabilizer)
- Multi protocols support
- Programmable 128 preset positions
- Max. 240°/sec pan speed and 360° continuous rotation
- Motion detection
- OSD (On Screen Display)
- Voltage : 24V AC
- Simple installation
- Auto surveillance functions
- RS-232C remote control
- S/N ratio of 50dB

30X high performance optical zoom

The SPD-3000 has a powerful built-in 30X A/F optical zoom lens that works with a 10X digital zoom to give you up to 300X zoom. This powerful zoom capability is especially useful for checking distant objects such as a visitor's face or a vehicle plate number.



Normal

30X



High resolution image of more than 520TV lines

The Super HAD CCD sensor is safely combined with the WIII DSP chip to bring you a super-clear horizontal resolution of 520TV lines in super-rich colors, enabling you to see all the details in the surveillance image better than ever before.



Standard Camera



SPD-3000

ICR Day & Night function

Built-in ICR (Infrared Cut filter Removal) Day & Night technology automatically removes the IR Cut filter when night falls and switches to 570TV line B/W image mode, making the SPD-3000 the ideal security solution for areas that require 24hour high resolution surveillance, such as parking lots or the perimeters of major industrial facilities.



Day



Night

DIS (Digital Image Stabilizer)

The built-in DIS (Digital Image Stabilizer) capability detects even the most minute camera shake and automatically corrects it, so the resulting image is always very stable and vivid.



Digital Image Stabilizer

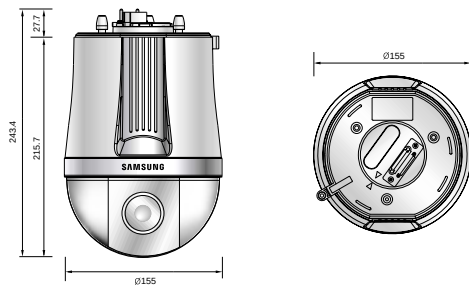
SPD-3000 | 1/4" High Resolution, 30X PTZ Speed Dome Camera

Technical Specifications

Mode	SPD-3000N	SPD-3000P
Power Source	24V AC (±10%)	
Power Consumption	Max. 10W	
Image Pick-up Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	30X, f3.3 ~ 99.0mm (F1.6 ~ 3.2)	
Min. Focus Distance	1.2m	
Angle Field of View	Horizontal : Appr. 58.0°(Wide) to 2.22°(Tele) / Vertical : Appr. 44.8°(Wide) to 1.68°(Tele)	
Digital Zoom	Built-in (2X ~ 10X, Total 300X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.7Lux@F1.6 (Normal color mode) 0.1Lux@F1.6 (B/W mode) 0.005Lux@F1.6 (Sens-up mode)	
Back Light Compensation	Low / Middle / High / Off selectable	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 4 Programmable zones per screen)	
Preset Positions	128 Positions	
Rotation Angle	Pan : 360° Endless / Tilt : -4° ~ -184° (Digital flip)	
Rotation Speed	Pan : 240°/sec (64 step) / Tilt : 240°/sec (64 step)	
Flip	Left / Right, Up / Down selectable	
Digital Image Stabilizer (DIS)	On / Off selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Protocols	PELCO-D, Panasonic, Vicon, Samsung Electronics	
Communication	RS-485, RS-422, RS-232C	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 75% RH	
Dimensions	Ø155(W) x 243.4(H)mm	
Weight	2.0Kg	

Dimensions

Unit : mm



Accessories

Indoor / Outdoor Housing



STH-330PIV/POV/320PO

Embedded Housing



STH-330PEV

Ceiling Bracket



STB-330PC

Wall Bracket



STB-270PWW

Pendant Bracket



STB-496PPV

Flanger



STB-20PF

Ceiling Flange



STB-30PF

Pole Mount



STB-330PPM

Corner Mount



STB-340PCM

Pole Mount



STB-350PPM

Optional Controller



SCC-3100A

SPD-2300

1/4" High Resolution, 23X PTZ Speed Dome Camera

SPD-2300

Outline

The SPD-2300 is a multi-technology-using, high image-resolution-providing, 23X optical zoom PTZ speed dome camera. It can provide vivid video images with over 520TV lines in color during the day, and its Day & Night mode gives you high resolution of over 570TV lines in black and white during the night. Its up to 230X zoom capability instantly gives you a hawk's-eye view of far away objects, and its outstanding auto-surveillance function provides you with a customized surveillance view of nothing less than the full 360 degrees. The camera's easy-to-install design and multiple installation accessories are an added bonus for convenient and safe installation.

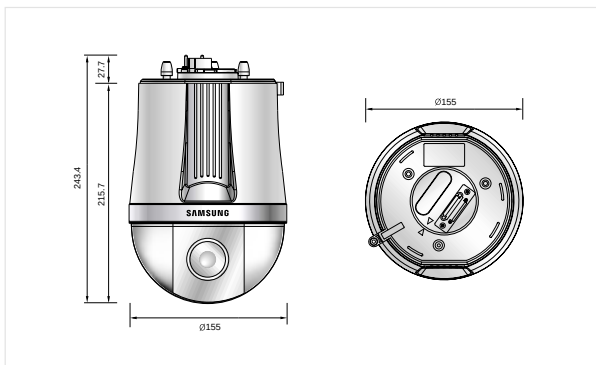


Features

- 1/4" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Powerful 23X optical zoom (f3.84 ~ 88.4mm) and 10X digital zoom
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutfilter Removal)
- High resolution of 520TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.7Lux@F1.6 (Color)
0.1Lux@F1.6 (B/W)
0.005Lux@F1.6 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Built-in DIS (Digital Image Stabilizer)
- Multi protocols support
- Programmable 128 preset positions
- Max. 240°/sec pan speed and 360° continuous rotation
- Motion detection
- OSD (On Screen Display)
- Voltage : 24V AC
- Simple installation
- Auto surveillance functions
- RS-232C remote control
- S/N ratio of 50dB

Dimensions

Unit : mm



Technical Specifications

Mode	SPD-2300N	SPD-2300P
Power Source	24V AC (±10%)	
Power Consumption	Max. 10W	
Image Pick-up Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	2 : 1 Interlace
Scanning System	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	23X, f3.84 ~ 88.4mm (F1.6 ~ 3.2)	
Min. Focus Distance	1.2m	
Angle Field of View	Horizontal : Appr. 52.5°(Wide) to 2.36°(Tele) Vertical : Appr. 40.3°(Wide) to 1.78°(Tele)	
Digital Zoom	Built-in (2X ~ 10X, Total 230X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on) 0.7Lux@F1.6 (Normal color mode) 0.1Lux@F1.6 (B/W mode) 0.005Lux@F1.6 (Sens-up mode)	
Min. Illumination	Low / Middle / High / Off selectable Color / B/W / Auto selectable (ICR filter change)	
Back Light Compensation	Low / Middle / High / Off selectable	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 4 Programmable zones per screen)	
Preset Positions	128 Positions	
Rotation Angle	Pan : 360° Endless / Tilt : -4° ~ -184° (Digital flip)	
Rotation Speed	Pan : 240°/sec (64 step) / Tilt : 240°/sec (64 step)	
Flip	Left / Right, Up / Down selectable	
Digital Image Stabilizer (DIS)	On / Off selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Protocols	PELCO-D, Panasonic, Vicon, Samsung Electronics	
Communication	RS-485, RS-422, RS-232C	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 75% RH	
Dimensions	Ø155(W) x 243.4(H)mm	
Weight	2.0Kg	

SVD-4300

1/4" High Resolution, Day & Nigh, Vandal-Proof 10X Dome Camera

SVD-4300

Outline

SVD-4300 is a high resolution vandal proof dome camera with a built-in advanced auto focus 10X A/F zoom lens. Its main body and dome made of high strength material withstand strong impacts, and you can easily position the camera in the optimal location due to the camera's 10X auto zoom and 3-Axis rotation dome design. The camera supports various functions such as high resolution of 500TV lines, Day & Night with removable IR cut filter (ICR), high sensitivity of 0.005Lux so users can achieve safe and perfect 24-hour surveillance.

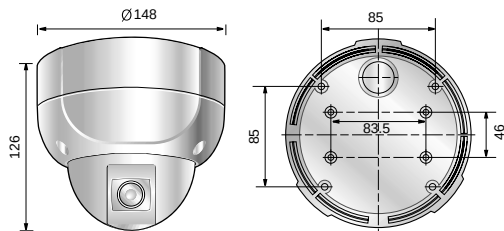


Features

- 1/4" Interline transfer color CCD with 410K pixels(N), 470K pixels(P)
- Built-in 10X (f3.8 ~ 38mm) zoom lens with auto focus
- Protection against rain & Wind (IP66)
- Rugged, high impact polycarbonate dome cover and aluminium body
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutfilter Removal)
- High resolution of 500TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.7Lux@F1.8 (Color)
0.02Lux@F1.8 (B/W)
0.005Lux@F1.8 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Two types of installation (Flush or Surface Mount)
- Motion detection • RS-232C remote control
- OSD (On Screen Display) • S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC

Dimensions

Unit : mm



CAMERA

Excellent Impact-Resistant and Rain / Wind-Proof design

The SVD-4300 has a high strength and durable exterior material of die-cast aluminum main body and polycarbonate dome. With excellent durability that passes the strict international UL standard test, the camera performs its functions regardless of intentional damages to the camera. With dust and rain resistant design which meets the IP66, the unit can prevent rapid aging and frequent malfunctions of the dome.



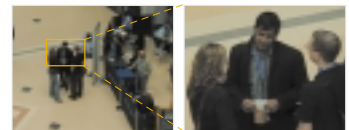
Impact Test



Rain and Dust Test

10X A/F Optical Zoom

The new SVD-4300 can effectively monitor a subject in a remote area with a built-in 10X auto focus optical zoom lens. Combined with a 10X digital zoom, it realizes a total zoom capability up to 100X enabling users to identify a distant object more clearly. In addition, installation has got much easier due to the powerful zoom function and service monitoring output support, ensuring optimal positioning of the camera.

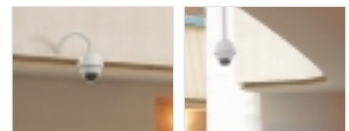


Normal

10X

Various Applications

The SVD-4300 is a high-performance camera which is available in flush or surface mount. The dome complies with the IP66 standard so it can be installed under eaves of a building or exterior places which are usually exposed to dust and rain with specialized housings.



STB-249VW

STB-319VP

SVD-4300 | 1/4" High Resolution, Day & Nigh, Vandal-Proof 10X Dome Camera

Technical Specifications

Mode	SVD-4300N	SVD-4300P
Power Source	12V DC / 24V AC (±10%)	
Power Consumption	Max. 5.5W	
Image Pick-up Device	1/4" Interline Transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 500TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	10X, f3.8 ~ 38.0mm (F1.8)	
Min. Focus Distance	1.5m	
Angle Field of View	Horizontal : Appr. 51.2°(Wide) to 5.58°(Tele) / Vertical : Appr. 39.3°(Wide) to 4.72°(Tele)	
Digital Zoom	Built-in (2X ~ 10X, Total 100X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.7Lux@F1.8 (Normal color mode) 0.02Lux@F1.8 (B/W mode) 0.005Lux@F1.8 (Sens-up mode)	
Back Light Compensation	Low / Middle / High / Off selectable	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 4 Programmable zones per screen)	
Preset Positions	8 Positions	
Rotation Angle	Pan : ±175° / Tilt : ±80° / Rotate : ±175°	
Flip	Vertical / Horizontal / Vertical-Horizontal / Off selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Protocols	PELCO-D	
Communication	RS-485, RS-422	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 80% RH	
Dimensions	Ø148(W) x 126(H)mm	
Weight	1.4Kg	

Accessories

Mount

Pendant Bracket



STB-319VP



STB-249VW

Wall Bracket

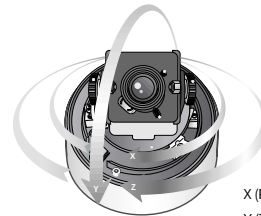


STB-225VW



STB-275VW

3-Axis Rotation

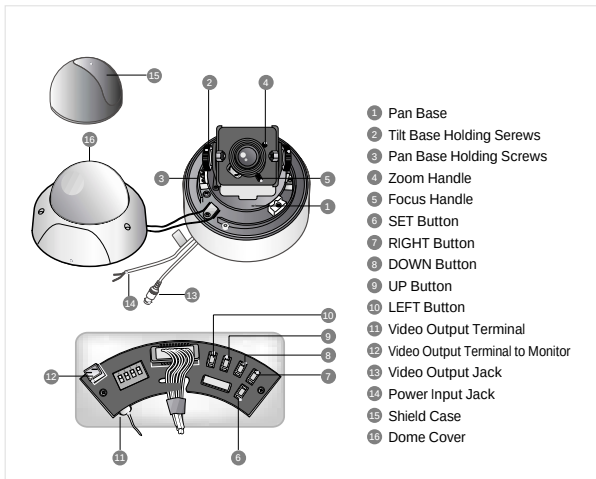


X (Panning) : ±175°

Y (Tilting) : ±80°

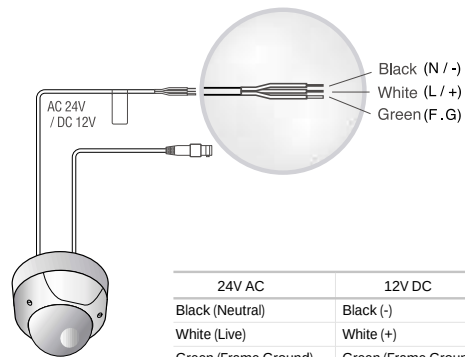
Z (Rotating) : ±175°

Name of Control Section



Connection

Connecting to Power



SVD-4120A

1/3" Low Light, WDR, Vandal-Proof Dome Camera

Outline

Samsung Techwin's vandal dome SVD-4120A series are high resolution color cameras equipped with 1/3-inch double scan CCD and Super Vision IIplus DSP which delivers a powerful dynamic range. These cameras produce crisper images, even in severe lighting conditions of large contrasts between light and darkness. With SSNR, it reduces random and fixed noise under low illumination and produces higher S/N ratio and no ghost effect. Also the units permit high quality pictures to be captured in low minimum 0.003Lux@F1.3 condition. The unit is a high-performance camera which is available in flush or surface mount. With die-cast aluminum bodies and 3.5mm thick polycarbonate dome, the unit catches the perfect image at any time and any place without damage to the camera. Features are motion detection, wide white balance, privacy zone masking, powerful electronic shutter control, OSD, 2.5X/2.4X varifocal lens, 500TV lines of horizontal resolution, and dual voltage of 24V AC and 12 V DC.



Acknowledged as 'Recommended' by Benchmark Magazine's Independent Testing

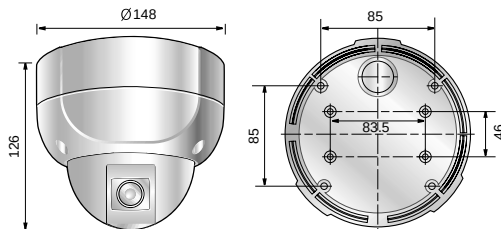


Features

- 1/3" Vertical double density color CCD with 410K pixels(N), 470K pixels(P)
- Protection against rain & wind (IP66)
- Built-in auto iris varifocal lens 2.5X (f3.8 ~ 9.5mm) / 2.4X (f2.5 ~ 6mm)
- Rugged, high impact polycarbonate dome cover and aluminium body
- Crystal clear image with SSNR
- Day & Night capability for 24/7 surveillance
- High resolution of 500TV lines
- Min. illumination of 0.3Lux@F1.3 (Color)
0.003Lux@F1.3 (Sens-up)
- Privacy image masking with free position : 4 zones
- Additional service monitoring output
- Easy adjustment with 3-Dimensional hinge
- WDR, Day & Night, Motion detection
- Two types of installation (Flush or surface mount)
- Dual voltage : 24V AC / 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SVD-4120AN	SVD-4120ANW	SVD-4120AP	SVD-4120APW
Power Source	12V DC / 24V AC (±10%)			
Power Consumption	Max. 280mA (DC) / 3.8W (AC)			
Image Pick-up Device	1/4" Vertical double density interline CCD			
Total Pixels	811(H) x 508(V)		795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)		752(H) x 582(V)	
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames		2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames	
Synchronization	Internal / Line lock selectable			
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz		Horizontal : 15,625KHz / Vertical : 50Hz	
Horizontal Resolution	500TV lines (Min.)			
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p) 2.5X Varifocal f3.8 ~ 9.5 (F1 : 1.3 ~ 2.0)		1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p) 2.5X Varifocal f3.8 ~ 9.5 (F1 : 1.3 ~ 2.0)	
Zoom Ratio	Horizontal : Appr. 74.2°(Wide) to 30.0°(Tele) Vertical : Appr. 54.0°(Wide) to 22.4°(Tele)		Horizontal : Appr. 108.2°(Wide) to 47.6°(Tele) Vertical : Appr. 80.4°(Wide) to 35.6°(Tele)	
Angle Field of View	Horizontal : Appr. 74.2°(Wide) to 30.0°(Tele) Vertical : Appr. 54.0°(Wide) to 22.4°(Tele)		Horizontal : Appr. 108.2°(Wide) to 47.6°(Tele) Vertical : Appr. 80.4°(Wide) to 35.6°(Tele)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)			
Min. Illumination	0.3Lux@F1.3 (Normal color mode) 0.003Lux@F1.3 (Sens-up mode)			
Wide Dynamic Range	Auto / On / Off selectable			
Day & Night	On / Auto selectable (Electrical)			
Gain Control	AGC-L / AGC-H / Off selectable			
White Balance	W-ATW / S-ATW / AWC / Manual selectable			
Electronic Shutter Speed	Auto / Manual selectable (1/60sec ~1/120,000sec)		Auto / Manual selectable (1/50sec ~1/120,000sec)	
Sens-up	On / Off (Selectable limit ~ 128X)			
OSD	Built-in			
SSNR	Low / Middle / High / Off selectable			
Motion Detection	On / Off selectable (Output via terminal)			
Privacy Function	On / Off selectable (Max.4 Programmable zones)			
Preset Positions	8 Positions			
Rotation Angle	Pan : ±170° / Tilt : 20° ~ 90°			
Lens Initialization	Built-in			
Focus Control	Auto / Manual / One push selectable			
Iris Control	DC drive			
Protocols	PELCO-D			
Communication	RS-232C			
Operating Temperature	-10°C ~ +50°C			
Operating Humidity	30% ~ 90% RH			
Dimensions	Ø148(W) x 126(H)mm			
Weight	1.4Kg			

SID-500

1/4" Day & Night, 10X Zoom, 3-Axis Dome Camera

SID-500

Outline

The SID-500 is a professional 3-Axis color dome camera that provides quality 10X (f3.8 ~ 38mm) zoom performance and great flexibility of installation. This camera is flexible in location and placement with its 3-Axis moving dome construction, which enables the camera wall mountable and slope attachable. It provides compact and rugged design, built-in 10X (f3.8 ~ 38mm) varifocal lens, a high resolution of 500TV lines, a minimum illumination of 0.7Lux and unique SSNR noise reduction technology.

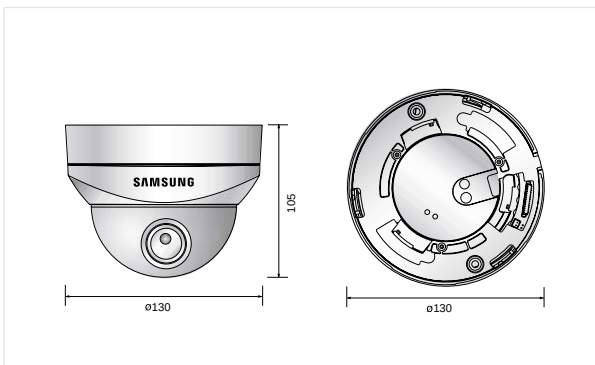


Features

- 1/4" Interline Transfer color CCD with 410K pixels(N), 470K pixels(P)
- Built-in 10X (f3.8 ~ 38mm) zoom lens with auto iris
- Wall mountable with 3-Axis rotating camera construction
- Removed noise & ghost images with SSNR
- Day & Night with ICR (Infrared Cutoff Removal)
- High resolution of 500TV lines (Color), 570TV lines (B/W)
- Min. illumination of 0.7Lux@F1.8 (Color)
0.02Lux@F1.8 (B/W)
0.005Lux@F1.8 (Sens-up)
- Privacy image masking with free position : Max. 32 zones
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Dual voltage : 24V AC / 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SID-500N	SID-500P
Power Source	12V DC / 24V AC (±10%)	
Power Consumption	Max. 5.5W	
Image Pick-up Device	1/4" Interline Transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	Color : 500TV lines (Min.) / B/W : 570TV lines (Min.) 1.0Vp-p / 75Ω	Color : 500TV lines (Min.) / B/W : 570TV lines (Min.) 1.0Vp-p / 75Ω
Video Output	(Video 0.714Vp-p, Sync 0.286Vp-p)	(Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	10X, f3.8 ~ 38.0mm (F1.8)	
Min. Focus Distance	1.5m	
Angle Field of View	Horizontal : Appr. 51.2°(Wide) to 5.58°(Tele) Vertical : Appr. 39.3°(Wide) to 4.72°(Tele)	
Digital Zoom	Built-in (2X ~ 10X, Total 100X zoom)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on) 0.7Lux@F1.8 (Normal color mode) 0.02Lux@F1.8 (B/W mode) 0.005Lux@F1.8 (Sens-up mode)	
Min. Illumination	0.005Lux@F1.8 (Sens-up mode)	
Back Light Compensation	Low / Middle / High / Off selectable	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)	
OSD	Built-in	
SSNR	Low / Middle / High / Off selectable	
Motion Detection	On / Off selectable (Output via terminal)	
Privacy Function	On / Off selectable (Max. 32 zones / 4Programmable zones)	
Preset Positions	8 Positions	
Rotation Angle	Pan : ±175° / Tilt : ±80° / Rotate : ±175°	
Flip	Vertical / Horizontal / Vertical-Horizontal / Off selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Protocols	PELCO-D	
Communication	RS-485, RS-232C	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 80% RH	
Dimensions	Ø130(W) x 105(H)mm	
Weight	640g	

SID-450/452

1/3" High Resolution, Day & Night, 3-Axis Dome Camera

SID-450/452

Outline

The SID-450/452, a 3-Axis color dome camera provides not only quality performance but also outstanding ease of installation. This camera is especially incredibly flexible to install with its 3-Axis camera construction, which makes the camera wall or slope mountable. It features compact size, built-in 3X (f3 ~ 9mm) varifocal lens, 530TV lines, a minimum illumination of 0.002Lux and unique SSNR noise reduction technology. This versatile camera is an excellent choice for indoor applications such as retail, schools, airports, banks and hotels.

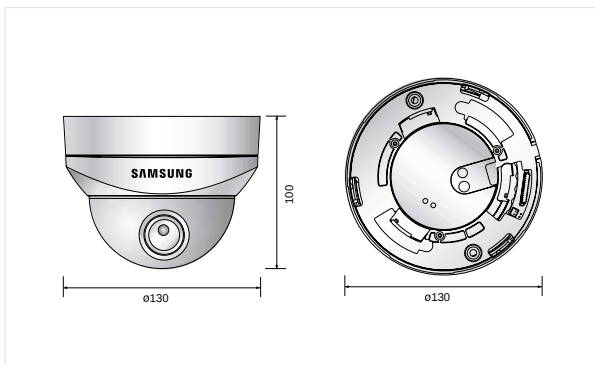


Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Built-in 3X (f3 ~ 9mm) varifocal lens with auto iris
- Wall mountable with 3-Axis rotating camera construction
- Removed noise & ghost images with SSNR
- 24/7 surveillance with Day & Night capability
- High resolution of 530TV lines
- Min. illumination of 0.3Lux@F1.2 (Color)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 12V DC (SID-450)
- Dual voltage : 24V AC / 12V DC (SID-452)

Dimensions

Unit : mm



Technical Specifications

Mode	SID-450N	SID-450P	SID-452N	SID-452P
Power Source	12V DC (±10%)		12V DC / 24V AC (±10%)	
Power Consumption	Max. 2.5W		Max. 3.0W	
Image Pick-up Device	1/3" Super HAD CCD			
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	768(H) x 494(V)	752(H) x 582(V)
	2 : 1 Interlace	2 : 1 Interlace	2 : 1 Interlace	2 : 1 Interlace
Scanning System	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames
Synchronization	Internal			
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	530TV lines (Min.)			
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	3X, f3.0 ~ 9.0mm (F1.2)			
Angle Field of View	Horizontal : Appr. 90.0°(Wide) to 31.8°(Tele) Vertical : Appr. 66.2°(Wide) to 23.9°(Tele)			
S / N Ratio (Y signal)	50dB (AGC off, Weight on)			
Min. Illumination	0.3Lux@F1.2 (Normal color mode) 0.002Lux@F1.2 (Sens-up mode)			
Back Light Compensation	Low / Middle / High / Off selectable			
Day & Night	On / Auto selectable (Electrical)			
Gain Control	Low / Middle / High / Off selectable			
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)			
Electronic Shutter Speed	Fixed (1/60sec ~ Flickerless)	Fixed (1/50sec ~ Flickerless)	Fixed (1/60sec ~ Flickerless)	Fixed (1/50sec ~ Flickerless)
Sens-up	On / Off (Selectable limit ~ 128X)			
OSD	Built-in			
SSNR	Low / Middle / High / Off selectable			
Motion Detection	On / Off selectable (Output via terminal)			
Privacy Function	On / Off selectable (4 Programmable zones)			
Sharpness	On / Off Selectable (Level adjustable)			
Rotation Angle	Pan: ±175° / Tilt: ±75°(Wide), ±80°(Tele) / Rotate: ±170° Pan : ±170° / Tilt : ±75° / Rotate : ±170°			
Flip	Vertical / Horizontal / Vertical-Horizontal / Off selectable			
Lens Initialization	Built-in			
Focus Control	Auto / Manual / One push selectable			
Iris Control	Auto / Manual selectable			
Communication	RS-232C			
Operating Temperature	-10°C ~ +50°C			
Operating Humidity	30% ~ 80% RH			
Dimensions	Ø130(W) x 100(H)mm		Ø130(W) x 105(H)mm	
Weight	570g		670g	

SID-45C/46C

1/3" High Resolution, Day & Night Dome Camera

SID-45C/46C

Outline

SID-45C/46C is the product of Samsung Techwin dome camera SID series which have proved their high quality and performance. It's more compact but stronger on features. The SID-45C/46C employs the WIII DSP chip, which offers a Day & Night function to achieve low light level performance of 0.002Lux and higher than 530TV lines of image quality for both day and night conditions. In addition, there are built-in functions including the convenient OSD menu, 4 zone privacy masking and motion detection for more efficient surveillance. The SID-45C/46C fulfills the users' expectations due to its reasonable price as well as a trustworthy top level quality.

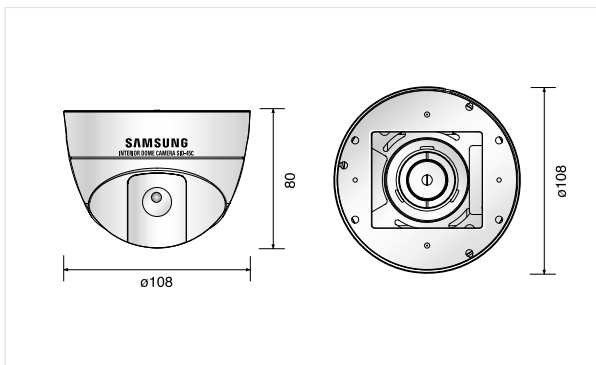


Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Built-in fixed lens : f3.7mm (SID-45C) / f8mm (SID-46C)
- Compact, Stylish design for various indoor applications
- Removed noise & ghost images with SSNR
- 24/7 surveillance with Day & Night capability
- High resolution of 530TV lines
- Min. illumination of 0.3Lux@F1.2 (Color)
0.002Lux@F1.2 (Sens-up)
- Privacy image masking with free position : 4 zones
- Motion detection
- OSD (On Screen Display)
- S/N ratio of 50dB
- Voltage : 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SID-45CN	SID-45CP	SID-46CN	SID-46CP
Power Source	12V DC (±10%)			
Power Consumption	Max. 1.8W			
Image Pick-up Device	1/3" Super HAD CCD			
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	2 : 1 Interlace	2 : 1 Interlace	2 : 1 Interlace
	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames	525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames
Synchronization	Internal			
Scanning Frequency	Horizontal : 15.734KHz Vertical : 59.94Hz	Horizontal : 15.625KHz Vertical : 50Hz	Horizontal : 15.734KHz Vertical : 59.94Hz	Horizontal : 15.625KHz Vertical : 50Hz
Horizontal Resolution	530TV lines (Min.)			
Video Output	1.0Vp-p / 75Ω	1.0Vp-p / 75Ω	1.0Vp-p / 75Ω	1.0Vp-p / 75Ω
	(Video 0.714Vp-p, Sync 0.286Vp-p)	(Video 0.7Vp-p, Sync 0.3Vp-p)	(Video 0.714Vp-p, Sync 0.286Vp-p)	(Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	Fixed : f3.7mm (F2.0), 92°		Fixed : f8.0mm (F2.0), 40°	
Angle Field of View	Horizontal : Appr. 51.2°(Wide) to 5.58°(Tele) Vertical : Appr. 39.3°(Wide) to 4.72°(Tele)			
S / N Ratio (Y signal)	50dB (AGC off, Weight on)			
Min. Illumination	0.3Lux@F1.2 (Normal color mode) 0.002Lux@F1.2 (Sens-up mode)			
Back Light Compensation	Low / Middle / High / Off selectable			
Day & Night	Auto / Off selectable (Electrical)			
Gain Control	Low / Middle / High / Off selectable			
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)			
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)	Auto / Manual selectable (1/60 ~ 1/120,000)	Auto / Manual selectable (1/50 ~ 1/120,000)
Sens-up	On / Off (Selectable limit ~ 128X)			
OSD	Built-in			
SSNR	Low / Middle / High / Off selectable			
Motion Detection	On / Off selectable (Output via terminal)			
Privacy Function	On / Off selectable (4 Programmable zones)			
Sharpness	On / Off selectable (Level adjustable)			
Monitoring Angle	Horizontal : Manual 0° ~ 340° / Vertical : Manual 30° ~ 90°			
Flip	Vertical / Horizontal / Vertical-Horizontal / Off selectable			
Lens Initialization	Built-in			
Focus Control	Auto / Manual / One push selectable			
Iris Control	Auto / Manual selectable			
Communication	RS-232C			
Operating Temperature	-10°C ~ +50°C			
Operating Humidity	30% ~ 80% RH			
Dimensions	Ø108(W) x 80(H)mm			
Weight	210g			

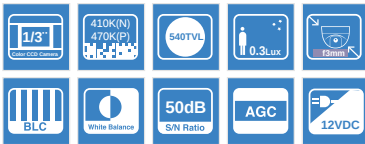
SID-50

1/3" High Resolution Mini Dome Camera

SID-50

Outline

The SID-50 has multiple features and strengths that are beyond what is expected of a mini dome camera. Premium features, including 540TV lines of super high resolution and 0.05Lux low light level imaging, come as standard in a luxurious white casing that fits beautifully into any environment ; the SID-50 is a perfect combination of innovative design and the latest technology. Additionally, the SID-50 with its auto-imaging feature is designed for easy installation regardless of location, and its standard optical lens provides a much wider and clearer field of view for surveillance. The high performance SID-50 security camera, with its highly dependable quality and sensible price tag, will further heighten user satisfaction.

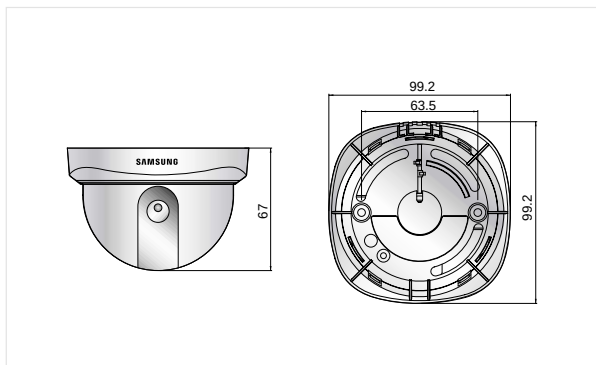


Features

- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- Built-in fixed lens (f3mm)
- Compact, Light weight and stylish design
- Removed noise & ghost images with SSNR
- High resolution of 540TV lines
- Min. illumination of 0.3Lux@F1.2 (Color)
0.05Lux@F1.2 (Sens-up)
- S/N ratio of 50dB
- Voltage : 12V DC

Dimensions

Unit : mm



Technical Specifications

Mode	SID-50N	SID-50P
Power Source	12V DC (±10%)	
Power Consumption	Max. 1.8W	
Image Pick-up Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal	
Scanning Frequency	Horizontal : 15,734KHz Vertical : 59.94Hz	Horizontal : 15,625KHz Vertical : 50Hz
Horizontal Resolution	540TV lines (Min.)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
Zoom Ratio	Fixed : f3.0mm (F2.0), 100°	
Angle Field of View	Horizontal : Appr. 51.2°(Wide) to 5.58°(Tele) Vertical : Appr. 39.3°(Wide) to 4.72°(Tele)	
S / N Ratio (Y signal)	50dB (AGC off, Weight on)	
Min. Illumination	0.3Lux@F1.2 (Normal color mode) 0.05Lux@F1.2 (Sens-up mode)	
Back Light Compensation	Auto	
Gain Control	Auto	
White Balance	Auto	
Electronic Shutter Speed	Auto	
Sens-up	Auto	
SSNR	Auto	
Sharpness	Auto	
Monitoring Angle	Horizontal : Manual 360° / Vertical : Manual 20° ~ 90°	
Flip	Vertical / Horizontal / Vertical-Horizontal / Off selectable	
Lens Initialization	Built-in	
Focus Control	Auto / Manual / One push selectable	
Iris Control	Auto / Manual selectable	
Communication	RS-232C	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 80% RH	
Dimensions	Ø99.2(W) x 67(H)mm	
Weight	200g	

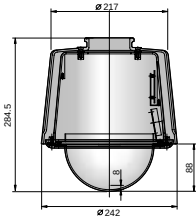
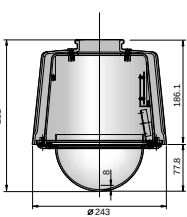
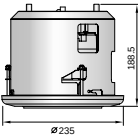
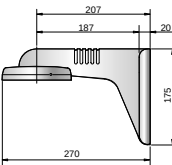
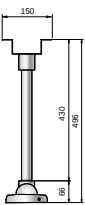
CAMERA ACCESSORIES

Housing & Bracket for Speed Dome Camera
(SPD-3300/3000/2300)

						
Mode	STH-330POV (Outdoor Housing)	STH-330PIV (Indoor Housing)	STH-320PO (Outdoor Housing)	STH-330PEV (Embedded Housing)	STB-270PWW (Wall Bracket)	STB-496PPV (Pendant Bracket)
Operating Temperature	-20°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Operating Humidity	0 to 90% RH	0 to 90% RH (non-condensing)	0 to 90% RH	0 to 90% RH (non-condensing)	0 to 90% RH (non-condensing)	0 to 90% RH (non-condensing)
Materials	Housing	ALDC 12	ALDC 10	EGI 1.2T	ALDC 12	ALDC 12
	Ring	ALDC 12	ALDC 12	ABS	EGI 1.2T	SPPS 32A/Sch 40
	Dome	Poly Carbonate	Poly Carbonate	-	-	SPCC
Antivibration / Waterproof	IP 67		IP 67	-	-	-
Dimensions	Ø242(W) x 284.5(H)mm		Ø243(W) x 281(H)mm	Ø235(W) x 188.5(H)mm	270(W) x 175(H) x 140(D)mm	150(W) x 496(H)mm
Weight	3.02Kg		1.55Kg	890g	1.2Kg	1.8Kg

Dimensions

Unit : mm

				
STH-330PIV/POV	STH-320PO	STH-330PEV	STB-270PWW	STB-496PPV

CAMERA ACCESSORIES

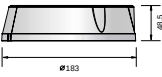
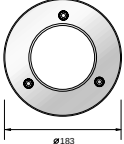
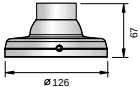
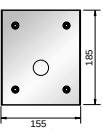
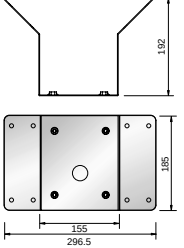
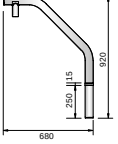
Bracket for Speed Dome Camera
(SPD-3300/3000/2300)

CAMERA

							
Mode		STB-330PC (Ceiling Bracket)	STB-20PF (Flanger)	STB-30PF (Ceiling Flange)	STB-330PPM (Pole Mount)	STB-340PCM (Corner Mount)	STB-350PPM (Parapet Mount)
Operating Temperature		-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Operating Humidity		0 to 90% RH	0 to 90% RH	0 to 90% RH	0 to 90% RH	0 to 90% RH	0 to 90% RH
Materials	Housing	ALDC 12	EGI 2T	ALDC 12	SPCC	SPCC	SUS
	Ring	-	-	EGI 1.2T	-	-	-
	Dome	-	-	-	-	-	-
Antivibration / Waterproof		-	-	-	-	-	-
Dimensions		Ø183(W) x 48.5(H)mm	Ø183(W) x 3mm	Ø126(W) x 67(H)mm	155(W) x 185(H) x 50(D)mm	297(W) x 185(H) x 192(D)mm	680(W) x 920(H)mm
Weight		1.3Kg	300g	380g	600g	1.3Kg	8Kg

Dimensions

Unit : mm

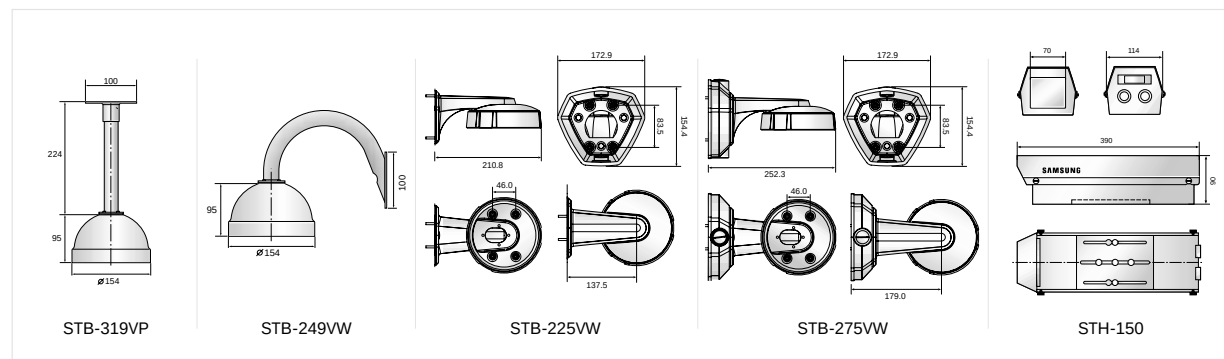
					
STB-330PC	STB-20PF	STB-30PF	STB-330PPM	STB-340PCM	STB-350PPM

CAMERA ACCESSORIES

		Bracket for Vandal Dome Camera (SVD-4300/4120A)				Housing for Fixed Camera
						
Mode		STB-319VP (Pendant Bracket)	STB-249VW (Wall Bracket)	STB-225VW (Wall Bracket)	STB-275VW (Wall Bracket)	STH-150 (Indoor Housing)
Operating Temperature		-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C
Operating Humidity		0 to 90% RH (non-condensing)	0 to 90% RH (non-condensing)	0 to 90% RH (non-condensing)	0 to 90% RH (non-condensing)	0 to 90% RH
Materials	Housing	AL	AL	AL	AL	AL
	Ring	SPPS	SPPS	-	-	-
	Dome	SPCC	SPCC	-	-	-
Antivibration / Waterproof		-	-	-	-	-
Dimensions		Ø154(W) x 319(H)mm	Ø154(W) x 249(D)mm	154(H) x 211(D)mm	154(H) x 252(D)mm	114(W) x 90(H) x 390(D)mm
Weight		650g	650g	800g	840g	1Kg

Dimensions

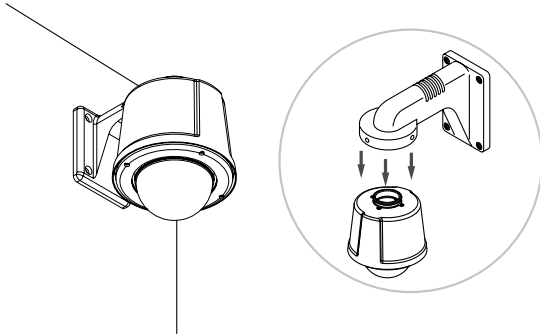
Unit : mm



ACCESSORIES APPLICATIONS

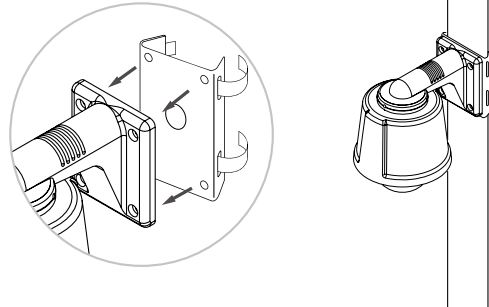
Wall Mount

STB-270PWV + STH-330PIV/POV/320PO



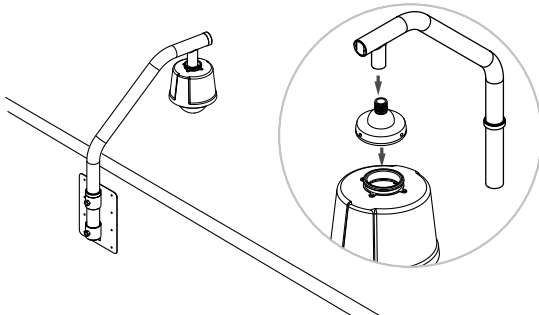
Pole Mount

STB-330PPM + STB-270PWV
+ STH-330PIV/POV/320PO



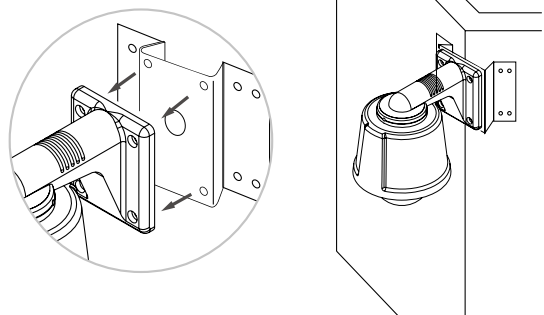
Parapet Mount

STB-350PPM + STB-30PF
+ STH-330PIV/POV/320PO

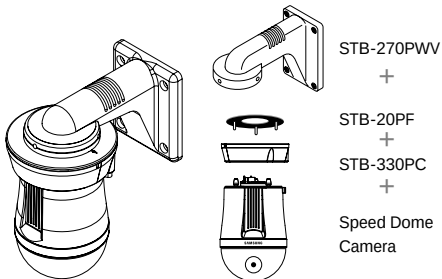


Corner Mount

STB-340PCM + STB-270PWV
+ STH-330PIV/POV/320PO



Flange



Pendant Mount

